

ANNEX G

Abbreviations

G.1 PART 1 - AGENCY, BUREAU, AND OTHER ORGANIZATIONAL ABBREVIATIONS

This part of Annex G contains those Agency and other Organizational Name and Bureau abbreviations that will be used in the Serial Number (SER), Bureau (BUR) and Circuit Remarks (REM) fields of the GMF. (See Chapter 9, Section 9.8.2).

Agency	Bureau	Abbreviation
Agency for International Development		AID
Agriculture, Department of		A
	Animal and Plant Health Inspection Service	APHS
	Agriculture Research Service	ARS
	Cooperative State Research Education & Extension Service	CSRE
	Farm Service Agency	FSA
	Farmers Home Administration	FHA
	Food & Nutrition Service	FNS
	Forest Service	F
	Forest Service - Region 1	F1
	Forest Service - Region 2	F2
	Forest Service - Region 3	F3
	Forest Service - Region 4	F4
	Forest Service - Region 5	F5
	Forest Service - Region 6	F6
	Forest Service - Region 8	F8
	Forest Service - Region 9	F9
	Forest Service - Region 10	F10
	Forest Service - Washington Office	FWO
	Food Safety and Inspection Service	FSIS
	Grain Inspection, Packers & Stockyards Administration	GIPS
Natural Resources Conservation Service	NRCS	
Office of Inspector General	OIG	
Office of the Secretary	SEC	
Air Force, Department of the		AF
Architect of the Capitol		AOTC
Army, Department of the		AR
	AFMO CONUS	AC
	United States Army, Alaska	AK
	Army Spectrum Management Office (outside US&P)	AR
	Corps of Engineers	CE
	Military District of Washington	DW
	AFC, State of Arizona	HU
	U.S. Army (State of Hawaii)	HW
	National Training Center & Ft. Irwin	NTC
	U.S. Army Pacific (does includes Hawaii)	PA
	AFC, White Sands Missile Range	WS
Administrative Office of the United States Courts		AUSC
Broadcasting Board of Governors		BBG
Commerce, Department of		C
	Bureau of Export Administration	BXA
	Census Bureau	CEN
	Environmental Data Information Service	EDIS

Agency	Bureau	Abbreviation
	Environmental Research Laboratories	ERL
	International Trade Administration	ITA
	Institute for Telecommunications Science	ITS
	National Institute of Standards and Technology	NIST
	National Data Buoy Center	NDBC
	National Environmental Satellite, Data, and Information Service	NESS
	National Marine Fisheries Service	NMFS
	Under Secretary's Administrative Offices	USAO
	National Ocean Service	NOS
	National Telecommunications and Information Administration	NTIA
	National Technical Information Service	NTIS
	National Weather Service	NWS
	NOAA Marine and Aircraft Operations	NMAO
	Patent and Trademark Office	PAT
	Office of Security	SEC
Office of the Secretary	OSY	
Coast Guard	Operating unit identifier is listed in the XRC field	CG
	Number Coast Guard Districts 1 through 17, including sub-units.	01-17
	Numbered Coast Guard Headquarters Units	20-96
	CG Headquarters, Washington DC	98
Central Intelligence Agency		CIA
Consumer Products Safety Commission		CPSC
Energy, Department of		DOE
	Alaska Power Administration	APA
	Albany Research Center	ARC
	Albuquerque Operations Office Amarillo Area Office Amarillo Pantex Plant Carlsbad Area Office Carlsbad Waste Isolation Pilot Project (WIPP) Dayton Area Office/Grand Junction Office Kansas City Area Office Kansas City Plant Kirtland Area Office Los Alamos Area Office Los Alamos National Lab Lovelace Respiratory Research Institute Sandia National Laboratory, California Sandia National Laboratory, New Mexico (Including all USA/USP assign.) Sandia National Laboratory, Pacific Operations Sandia National Laboratory, Tonopah Test Range, NV Tactical Security Division	AL
	Atlanta Regional Support Office Bartlesville Project Office	ARSO
	Bonneville Power Administration	BPA
	Boston Regional Support Office	BRSO
	Chicago Operations Office Ames Group Ames National Laboratory Argonne Group Argonne National Lab, East Argonne National Lab, West Brookhaven Group Brookhaven National Lab	CH

Agency	Bureau	Abbreviation
	Environmental Measurements Lab Environmental Programs Group Fermi Group Fermi National Accelerator Laboratory MIT Group New Brunswick Laboratory Princeton Group Princeton Plasma Physics Laboratory	
	Chicago Regional Support Office	CRSO
	Denver Regional Support Office	DRSO
	Federal Energy Technology Center Colorado Off-Site Support Office, Golden, Colorado Colorado Support Office, Denver, Colorado Federal Energy Technology Center North, Pittsburgh, Pennsylvania Federal Energy Technology Center South, Morgantown, West Virginia Georgia Support Office, Atlanta, Georgia Illinois Support Office, Chicago, Illinois Kansas City Remote Duty Station, Kansas City, Kansas Massachusetts Support Office, Boston, Massachusetts Montana Operations Office, Butte, Montana National Petroleum Technology Center National Renewable Energy Laboratory, Golden, Colorado National Renewable Energy Laboratory, Washington, DC New York Support Office, New York, New York Pennsylvania Support Office, Philadelphia, Pennsylvania Texas Support Office, Dallas, Texas Washington Support Office, Seattle, Washington Wyoming Operations Office, Gillette, Wyoming	FETC
	Golden Field Office Administration Division Office of Acquisition and Financial Assistance Office of Chief Counsel Office of Management and Administration Office of Laboratory Operations Office of Project Management	GFO
	Headquarters Contract Reform and Privatization Project Office Departmental Representative to the Defense Nuclear Facilities Safety Board Energy Information Administration Office of the Chief Financial Officer Office of the Chief Information Officer Office of the Civilian Radioactive Waste Management Office of Congressional and Intergovernmental Affairs Office of Counterintelligence Office of Defense Programs Office of Economic Impact and Diversity Office of Energy Efficiency and Renewable Energy Office of Environmental Management Office of Environment, Safety, and Health Office of Fissile Materials Disposition Office of Fossil Energy Office of the General Counsel Office of Hearings and Appeals Office of Independent Oversight and Performance Assurance	HQ

Agency	Bureau	Abbreviation
	Office of Inspector General Office of Intelligence Office of Internal Affairs Office of Management and Administration Office of Nonproliferation and National Security Office of Nuclear Energy, Science, and Technology Office of Public Affairs/Office of Science Office of the Secretary of Energy Advisory Board Office of Security and Emergency Operations Office of Worker and Community Transition The Office of Policy	
	Idaho Operations Office Idaho National Engineering and Environmental Laboratory INEL ESNET Connection Spectrum Support for Argonne National Laboratories Spectrum Support for Experimental Station Authorization at INEEL Spectrum Support for Fort Saint Vrain Spectrum Support for the Main M&O Contractor Spectrum Support for Naval Reactor Facility Spectrum Support for West Valley, New York	ID
	National Nuclear Security Administration Office of the Deputy Administrator for Defense Nuclear Non-proliferation Office of the Deputy Administrator for Defense Programs Office of the Deputy Administrator for Naval Reactors	NNSA
	Naval Petroleum Reserves in California Engineering Division/Planning, Analysis, and Program Division Support	NPR
	Naval Petroleum and Oil Shale Reserves in Colorado, Utah, & Wyoming	CO
	Nevada Operations Office Nevada Test Site Joint Test Operations (LANL, LLNL, SNL) Nevada Operations (Nevada Test Site & Las Vegas) Nevada Test Site Development Corp. Nevada Testing Institute, Inc. Pacific Area Operations, Honolulu, Hawaii Remote Sensing Lab, Nellis AFB, NV (Nuclear Emergency Search Team) Special Technologies Lab, Santa Barbara, CA Washington Area Measurements Operations, Washington, DC Yucca Mountain Project, NV	NV
	Oak Ridge Operations Office Cincinnati Operations Office, Cincinnati, Ohio Dallas Operations Office, Dallas, Texas East Tennessee Technology Park Laramie ETC/Oak Ridge Associated Universities Oak Ridge Institute for Science and Education Oak Ridge National Laboratory Oak Ridge Operations Environmental Management Program Oak Ridge Operations Office Federal Building Oliver Springs Area Office, Oliver Springs, Tennessee Paducah Operations Office, Paducah, Kentucky (Plant) Piketon Area Office	OR

Agency	Bureau	Abbreviation
	Portsmouth Area Office (Plant) Saint Charles Area Office Thomas Jefferson National Accelerator Facility University of Puerto Rico Weldon Springs Operations Office Y-12 Plant	
	Oakland Operations Office Lab of Structural Biology and Molecular Medicine Lawrence Berkley National Laboratory Lawrence Livermore National Laboratory Radiobiology and Environmental Health Laboratory Stanford Linear Accelerator Center	OAK
	Office of Scientific and Technical Information	OSTI
	Ohio Field Office Ashtabula Environmental Management Project Columbia Area Office/Columbus Environmental Management Project Fernald Environmental Management Project Miamisburg Environmental Management Project West Valley Project Office	OH
	Philadelphia Regional Support Office	PRSO
	Pittsburgh Naval Reactors Office Bettis Atomic Power Laboratory Idaho Branch Office	PNRO
	Pittsburgh Research Center Denver Federal Center, Denver, Colorado Spokane Research Center, Spokane, Washington	PRC
	Richland Operations Office Environmental Restoration Contractor Fast Flux Test Facility (FFTF), Standby Project Office Occupational Health Services Office of River Protection Pacific Northwest National Laboratory Project Hanford Management Contract Tank Farm Operations Tank Waste Privatization	RL
	Rocky Flats Field Office Deputy Manager Rocky Flats Environmental Technology Site	RFFO
	Savannah River Operations Office	SRO
	Schenectady Naval Reactors Office Knolls Atomic Power Laboratory	SNRO
	Seattle Regional Support Office	SRSO
	Southeastern Power Administration Office	SEPA
	Southwestern Power Administration Office Gore Area Office, Gore, Oklahoma Springfield Area Office, Springfield, Missouri	SWPA
	Strategic Petroleum Reserve Project Office	SPR
	Western Area Power Administration Corporate Services Office Desert Southwest Regional Office Rocky Mountain Regional Office Sierra Nevada Regional Office Upper Great Plains Regional Office	WAPA
	Yucca Mountain Site Characterization Office	YMSC
Department of Education		ED
Equal Employment Opportunity Commission		EEOC

Agency	Bureau	Abbreviation
Environmental Protection Agency		EPA
	Office of the Administrator/Deputy Administrator	AO
	Office of Administration and Resource Management	OARM
	Office of Air and Radiation	OAR
	Office of Enforcement and Compliance Assurance	OECA
	Office of Environmental Information	OEI
	Office of the Chief Financial Officer	OCPO
	Office of General Counsel	OGC
	Office of Inspector General	OIG
	Office of International Activities	OIA
	Office of Prevention, Pesticides, and Toxic Substances	OPTS
	Office of Research and Development	ORD
	Office of Solid Waste and Emergency Response	OWER
	Office of Water	OW
Federal Aviation Administration		FAA
	Transportation System Center	TSC
	FAA Alaskan Region	AL
	FAA Central Region	CE
	FAA Eastern Region	EA
	FAA Great Lakes Region	GL
	FAA Headquarters	HQ
	FAA New England Region	NE
	FAA Northwest Mountain Region	NM
	FAA Southern Region	SO
	FAA Southwest Region	SW
	FAA Western Pacific Region	WP
Federal Communications Commission		
	Enforcement Bureau	EB
	Office of Engineering and Technology	OET
	Office of Managing Director	OMD
	Wireless Telecommunications Bureau	WTB
Federal Mediation and Conciliation Service		FMCS
Federal Deposit Insurance Corporation		FDIC
Federal Reserve System		FRS
General Accounting Office		GAO
Government Printing Office		GPO
General Services Administration		GSA
	General Property Resources Service	D
	Office of Federal Supply and Services	F
	Office of Inspector General	J
	Office of Information Resources Management	K
	Public Buildings Service	P
	Office of Federal Protection and Safety	PS

Agency	Bureau	Abbreviation
Health and Human Services, Department of		HHS
	Department Wide	OSDW
	Immediate Office of the Secretary	OSIO
	Office of the Inspector General	OSIG
	Office of Public Health & Science	OSEP
	Administration for Children & Families	ACF
	Centers for Disease Control & Prevention	CDC
	Food and Drug Administration	FDA
	Health Care Financing Administration	HCFA
	Health Resources and Services Administration	HRSA
	Indian Health Services	HIS
	National Institutes of Health	NIH
	Program Support Center	PSC
Substance Abuse & Mental Health Administration	SAMH	
Homeland Security, Department of		DHS
	Bureau of Citizenship and Immigration Services	CIS
	Bureau of Customs and Border Protection	CBP
	Bureau of Immigrations and Customs Enforcement	ICE
	Department Offices	DO
	Federal Emergency Management Agency	FEMA
	Federal Law Enforcement Training Center	FLTC
	Information Analysis and Infrastructure Protection Directorate	IAIP
	Integrated Wireless Network	IWN
	Office of the Inspector General	OIG
	Office of the Secretary	O
	Science and Technology Directorate	ST
	Transportation Security Administration	TSA
	U.S. Secret Service	S
White House Communications Agency	D	
House of Representatives		HR
Housing and Urban Development, Department of		HUD
Interior, Department of the		I
	American Samoa, Government of	A
	Mine Safety and Health Administration	E
	Geological Survey	G
	Geological Survey - Administrative	GA
	Geological Survey - Biological Resources Division	GB
	Geological Survey - Geologic Division	GG
	Geological Survey - National Mapping Division	GT
	Geological Survey - Water Resources Division	GW
	Geological Survey - Not elsewhere classified	GZ
	Bureau of Indian Affairs	I
	Bureau of Indian Affairs - Aberdeen Area	IA
	Bureau of Indian Affairs - Anadarko Area	IB
	Bureau of Indian Affairs - Billings Area	IC
	Bureau of Indian Affairs - Juneau Area	IE
	Bureau of Indian Affairs - Minneapolis Area	IF
	Bureau of Indian Affairs - Muskogee Area	IG
	Bureau of Indian Affairs - Phoenix Area	IH
	Bureau of Indian Affairs - Sacramento Area	IJ
	Bureau of Indian Affairs - Central Office (Washington, DC)	IK
	Bureau of Indian Affairs - Law Enforcement	IL
	Bureau of Indian Affairs - Albuquerque Area	IM
	Bureau of Indian Affairs - Navajo Area	IN

Agency	Bureau	Abbreviation
	Bureau of Indian Affairs - Portland Area	IP
	Bureau of Indian Affairs - Eastern Area	IS
	Bureau of Indian Affairs - Joint use area	IW
	Bureau of Indian Affairs - Not elsewhere classified	IZ
	Bureau of Land Management	L
	Bureau of Land Management - Washington Office	LWO
	Bureau of Land Management - Alaska	LAK
	Bureau of Land Management - Arizona	LAZ
	Bureau of Land Management - California	LCA
	Bureau of Land Management - Colorado	LCO
	Bureau of Land Management - Idaho	LID
	Bureau of Land Management - Montana	LMT
	Bureau of Land Management - Nevada	LNV
	Bureau of Land Management - New Mexico	LNM
	Bureau of Land Management - Oregon	LOR
	Bureau of Land Management - Utah	LUT
	Bureau of Land Management - Wyoming	LWY
	Bureau of Land Management - Eastern States	LESO
	Bureau of Land Management - Denver Federal Center	LDFC
	Bureau of Land Management - National Training Center (PHX)	LNTC
	Bureau of Land Management - National Fire Center (Boise)	LNFC
	Bureau of Mines	M
	Bureau of Mines - Minerals Management Service	MMS
	Bureau of Mines - Office of the Secretary	O
	Bureau of Mines - Office of Aircraft Services	OAS
	Bureau of Mines - Office of Surface Mining	OSM
	National Park Service	P
	National Park Service - Alaska Field Area	PAK
	National Park Service - Intermountain Field Area	PIM
	National Park Service - New England Field Area	PNE
	National Park Service - Midwest Field Area	PMW
	National Park Service - National Capital Field Area	PNC
	National Park Service - Pacific West Field Area	PPW
	National Park Service - Southeast Field Area	PSE
	National Park Service - Not elsewhere classified	PZZ
	Bureau of Reclamation	R
	Bureau of Reclamation - Great Plains	RGP
	Bureau of Reclamation - Lower Colorado	RLC
	Bureau of Reclamation - Mid-Pacific	RMP
	Bureau of Reclamation - Pacific Northwest	RPN
	Bureau of Reclamation - Upper Colorado	RUC
	Bureau of Reclamation - Not elsewhere classified	RZZ
	U.S. Fish and Wildlife Service	S
	CA, GUM, HI, ID, MDW, NV, OR, PAC, WA	S1
	AZ, NM, OK, TX	S2
	IA, IL, IN, MI, MN, MO, OH, WI	S3
	AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, PR, VI	S4
	CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, WV	S5
	CO, KS, MT, NE, ND, SD, UT, WY	S6
	AK	S7
	Not elsewhere classified	S9
	Trust Territory of the Pacific Islands, Government of the (including Government of the Northern Marianas)	T

Agency	Bureau	Abbreviation
International Trade Commission		ITC
International Boundary and Water Commission, U.S. and Mexico (U.S. Section)		IBWC
Agency	Bureau	Abbreviation
Justice, Department of		J
	Alcohol, Tobacco and Firearms	ATF
	Bureau of Prisons	BP
	Drug Enforcement Administration	D
	Federal Bureau of Investigation	FB
	Immigration and Naturalization Service	IN
	Integrated Wireless Network	IWN
	Justice Management Division	JMD
	Justice-Wide (including Offices, Boards, and Divisions of the Department)	JW
	Justice Wireless Network	JWN
U.S. Marshals Service	M	
Labor, Department of		L
Library of Congress		LC
National Aeronautics and Space Administration		NASA
	Ames Research Center	ARC
	Dryden Flight Research Center	DFRC
	Goddard Space Flight Center	GSFC
	NASA Headquarters	HQS
	Jet Propulsion Laboratory	JPL
	Johnson Space Center	JSC
	Kennedy Space Center	KSC
	Langley Research Center	LARC
	John H. Glenn Research Center	GRC
	Marshall Space Flight Center	MSFC
	Wallops Flight Facility	WFF
National Archives and Records Administration		NARA
National Endowment for the Arts		NEA
National Gallery of Art		NGAL
National Labor Relations Board		NLRB
National Security Agency		NS
National Science Foundation		NSF
	Kitt Peak National Observatory	KPNO
	National Astronomy and Ionosphere Center	NAIC
	National Center for Atmospheric Research	NCAR
	National Radio Astronomy Observatory	NRAO
	Sacramento Peak Observatory	SPO
Navy, Department of the (U.S. Navy)		N
	United States Navy	USN
	United States Marine Corps	USMC
	United States Naval Research Laboratory	NRL
Navy, Department of the (U.S. Marine Corps)		MC
	United States Marine Corps	USMC
Nuclear Regulatory Commission		NRC
Office of Personnel Management		OPM
Securities and Exchange Commission		SEC
Senate, U.S.		SEN
Small Business Administration		SBA
	Office of the Inspector General	G

Agency	Bureau	Abbreviation
Smithsonian Institution		SI
Social Security Administration		SSA
State, Department of		S
	Bureau of Economic and Business Affairs	EB
	Bureau of Information Resource Management	IRM
Supreme Court		SC
Tennessee Valley Authority		TVA
Transportation, Department of		TRAN
	Department Wide (less Federal Aviation Administration (FAA) and Transportation Systems Center (TSC))	DW
	Federal Highway Administration	H
	Maritime Administration	MAR
	National Transportation Safety Board	NB
	Office of the Secretary	OS
	Federal Railroad Administration	R
	Railroad Transportation Test Center, Pueblo	RATC
	Research and Special Programs Administration	RSPA
	St. Lawrence Seaway Development Corporation	SL
	National Highway Traffic Safety Administration	T
	Urban Mass Transportation Administration	UM
		T
Treasury, Department of the	Departmental Offices	DO
	Bureau of Engraving and Printing (BEP)	BEP
	Financial Management Service	FMS
	Treasury Inspector General for Tax Administration (TIGTA)	IGTA
	IRS Criminal Investigations Division (IRS-CID)	IRCI
	Internal Revenue Service (IRS) Facilities	IRF
	Integrated Wireless Network	IWN
	US Mint	M
	Office of the Inspector General	OIG
	Office of the Secretary	O
	Bureau of Public Debt (BPD)	BPD
	Alcohol and Tobacco Tax and Trade Bureau	TTB
U.S. Capitol Police		USCP
U.S. Chemical Safety Hazard Investigations Board		CSB
U.S. Court of International Trade		CIT
U.S. Peace Corps		USPC
U.S. Postal Service		USPS
	Postal Inspection Service	IS
	Mail Processing and Distribution	MAIL
	National Network Service Center	NET
	National Systems Development	NSD
	Office of the Inspector General	OIG
	Security	SEC
U.S. Trade and Development Agency		TDA
U.S. Trade Representative		USTR
Veterans Affairs, Department of		VA
	National Cemetery Administration	NCA
	Office of Inspector General	OIG
	Veterans Benefits Administration	VBA
	Veterans Health Administration	VHA

G.1.1 Other Organizational Abbreviations

These abbreviations identify records which are recorded in the GMF for spectrum management and analysis purposes.

Organization	Abbreviation
CANADA	CAN
FEDERATED STATES OF MICRONESIA	FSM
MEXICO	MEX
NON-GOVERNMENT RECORDS (70/80/90 GHz)	NG
NON-GOVERNMENT RECORDS (70/80/90 GHz)	NGR
REPUBLIC OF PALAU	RP
REPUBLIC OF THE MARSHALL ISLANDS	RMI

G.2 PART 2 - GEOGRAPHICAL ABBREVIATIONS

This part of Annex G contains those abbreviations that will be used in the Transmitter and Receiver State/Country fields (XSC/RSC) of the GMF. (See Chapter 9, Section 9.8.2)

G.2.1 United States and Possessions - 50 United States and the District of Columbia

AK	Alaska
AL	Alabama
AR	Arkansas
AZ	Arizona
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
GA	Georgia
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana

MA	Massachusetts
MD	Maryland
ME	Maine
MI	Michigan
MN	Minnesota
MO	Missouri
MS	Mississippi
MT	Montana
NC	North Carolina
ND	North Dakota
NE	Nebraska
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
OR	Oregon
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming

G.2.2 Possession or Commonwealths of the United States (OTHER THAN the 50 United States and the District of Columbia)

Caribbean Area

-	Navassa Island
PR	Puerto Rico (including Culebra, Mona, and Vieques)
-	Quita Sueno Bank
-	Roncador Bank (Roncador Cay)
-	Serrana Bank (North Cay, Southwest Cay, Northwest Rocks, Dry Ledge) Serranilla Bank (West Breaker, Beacon Cay)
VI	Virgin Islands (St. Croix, St. John, St. Thomas)

Pacific Area

-	Baker Island
GUM	Guam
HWL	Howland Island
JAR	Jarvis Island
JON	Johnston Island (including Sand Island) Kingman Reef
MDW	Midway (Includes Eastern and Sand Islands)
MRA	(except Guam) Mariana Islands (Formerly Ladron Islands) (Agrihan, Aguijan, Alamagan, Anatahan, Asuncion, Guguan, Maug, Medinilla, Pagan, Farallon de Pajaros, Rota, Saipan, Sarigan, and Tinian)
PLM	Palmyra Island (Some 50 islands make up the Atoll of Palmyra)
SMA	Samoa (American) (Aunuu, Manua Group [or Islands, i.e., Ofu, Olosega, Tau], Rose Island, Swains Island, Tutuila)
WAK	Wake Island

Area and Other Abbreviations

AFR	Africa
ANTR	Antarctica
ARCO	Arctic Ocean
ASIA	Continent of Asia
CAM	Central America
CBN	Caribbean
EUR	Europe
FE	Far East (Countries of China, Japan, Korea, Thailand, Brunei, Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Vietnam and East India)
GLM	Gulf of Mexico
GTLK	Great Lakes (collectively)
INDO	Indian Ocean
LAM	Latin America
LANT	Atlantic Ocean
LERI	Lake Erie
LHUR	Lake Huron
LMIC	Lake Michigan
LONT	Lake Ontario
LSUP	Lake Superior
MED	Mediterranean Sea
MDE	Middle East
OCNA	Oceania
PAC	Pacific Ocean

RCVR	Restricted for use only in Passive Sensor and Radio Astronomy listings
SEA	Southeast Asia
SPCE	Space
US	For US only when transmitting and/or receiving in all 50 United States and the District of Columbia
USA	For use only when transmitting and/or receiving in the 48 Contiguous States of the United States and the District of Columbia (This Excludes Alaska and Hawaii)
USP	For use only when transmitting and/or receiving throughout the US (50 States and District of Columbia), the Commonwealth of Puerto Rico, and the Territories and Possessions (does not include the former Trust Territory of the Pacific Islands)
XXXX	See Chapter 9, Section 9.8.2 paragraph 21

Country Abbreviations

ABW	Aruba
AFG	Afghanistan (Islamic State of)
AFS	South Africa (Republic of)
AGL	Angola (Republic of)
AIA	Anguilla
ALB	Albania (Republic of)
ALG	Algeria (People's Democratic Republic of)
ALS	Alaska (not for use in GMF; for ITU use only)
AMS	Saint Paul and Amsterdam Islands
AND	Andorra (Principality of)
AOE	Western Sahara
ARG	Argentine Republic
ARM	Armenia (Republic of)
ARS	Saudi Arabia (Kingdom of)
ASC	Ascension
ATA	Antarctic
ATG	Antigua and Barbuda
ATN	Netherlands Antilles
AUS	Australia
AUT	Austria
AZE	Azerbaijani Republic
AZR	Azores

B	Brazil (Federative Republic of)	D	Germany (Federal Republic of)
BAH	Bahamas (Commonwealth of the)	DGA	Diego Garcia
BDI	Burundi (Republic of)	DJI	Djibouti (Republic of)
BEL	Belgium	DMA	Dominica (Commonwealth of)
BEN	Benin (Republic of)	DNK	Denmark
BER	Bermuda	DOM	Dominican Republic
BFA	Burkina Faso		
BGD	Bangladesh (People's Republic of)	E	Spain
BHR	Bahrain (State of)	EGY	Egypt (Arab Republic of)
BIH	Bosnia & Herzegovina (Republic of)	EQA	Ecuador
BIO	British Indian Ocean Territory	ERI	Eritrea
BLR	Belarus (Republic of)	EST	Estonia (Republic of)
BLZ	Belize	ETH	Ethiopia
BOL	Bolivia (Republic of)		
BOT	Botswana (Republic of)	F	France
BRB	Barbados	FJI	Fiji (Republic of)
BRM	Myanmar (Union of)	FLK	Falkland Islands (Malvinas)
BRU	Brunei Darussalam	FIN	Finland
BTN	Bhutan (Kingdom of)	FRO	Faroe Islands
BUL	Bulgaria (Republic of)	FSM	Micronesia (Federated States of) (Kapingamarangi, Kosrae, Lamotrek, Namonuito, Nukuoro, Oroluk, Pohnpei, Truk, Ulithi, Woleai, Yap)
CAF	Central African Republic		
CAN	Canada	G	United Kingdom of Great Britain and Northern Ireland
CAR	Caroline Islands	GAB	Gabonese Republic
CBG	Cambodia (Kingdom of)	GCA	Territories of the United Kingdom in Region 1
CHL	Chile (except Easter Island)	GCC	Territories of the United Kingdom in Region 3
CHN	China (People's Republic of)	GDL	Guadeloupe (French Department of)
CHR	Christmas Island (Indian Ocean)	GEO	Georgia (Republic of)
CKH	Cook Islands	GHA	Ghana
CLM	Colombia (Republic of)	GIB	Gibraltar
CLN	Sri Lanka (Democratic Socialist Republic of)	GMB	Gambia (Republic of the)
CME	Cameroon (Republic of)	GNB	Guinea-Bissau (Republic of)
CNR	Canary Islands	GNE	Equatorial Guinea (Republic of)
COG	Congo (Republic of the)	GRC	Greece
COM	Comoros (Islamic Federal Republic of the)	GRD	Grenada
CPV	Cape Verde (Republic of)	GRL	Greenland
CRO	Crozet Archipelago	GTM	Guatemala (Republic of)
CTI	Cote d'Ivoire (Republic of)	GUF	Guiana (French Department of)
CTR	Costa Rica	GUI	Guinea (Republic of)
CUB	Cuba	GUM	Guam
CVA	Vatican City State	GUY	Guyana
CYM	Cayman Islands		
CYP	Cyprus (Republic of)		
CZE	Czech Republic		

HKG	Hong Kong	MAC	Macao
HND	Honduras (Republic of)	MAU	Mauritius (Republic of)
HNG	Hungary (Republic of)	MCO	Monaco (Principality of)
HOL	Netherlands (Kingdom of the)	MDA	Moldova (Republic of)
HRV	Croatia (Republic of)	MDG	Madagascar (Democratic Republic of)
HTI	Haiti (Republic of)	MDR	Madeira
HWA	Hawaii (not for use in GMF; for ITU use only)	MDW	Midway Islands
I	Italy	MEX	Mexico
ICO	Cocos Keeling Islands	MHL	Marshall Islands (Republic of the) (Ailinglapalap, Arno, Ebeye, Enewetak, Jaluit, Kwajalein, Majuro, Mili, Roi-Namur, Rongelap)
IND	India (Republic of)	MKD	The Former Yugoslav Republic of Macedonia
INS	Indonesia (Republic of)	MLA	Malaysia
IRL	Ireland	MLD	Maldives (Republic of)
IRN	Iran (Islamic Republic of)	MLI	Mali (Republic of)
IRQ	Iraq (Republic of)	MLT	Malta
ISL	Iceland	MNG	Mongolian People's Republic
ISR	Israel (State of)	MOZ	Mozambique (Republic of)
J	Japan (includes Iwo Jima, Marcus Island, Ryu Kyu Islands)	MRA	Mariana Islands (except Guam)
JMC	Jamaica	MRC	Morocco (Kingdom of)
JON	Johnston Island	MRN	Marion Island
JOR	Jordan (Hashemite Kingdom of)	MRT	Martinique (French Department of)
KAZ	Kazakhstan (Republic of)	MSR	Montserrat
KEN	Kenya (Republic of)	MTN	Mauritania (Islamic Republic of)
KER	Kerguelen Islands	MWI	Malawi
KGZ	Kyrgyz Republic	MYT	Mayotte Island
KIR	Kiribati (Republic of)	NCG	Nicaragua
KOR	Korea (Republic of)	NCL	New Caledonia
KRE	Democratic People's Republic of Korea	NFK	Norfolk Island
KWT	Kuwait (State of)	NFR	Niger (Republic of the)
LAO	Lao People's Democratic Republic	NIG	Nigeria (Federal Republic of)
LBN	Lebanon	NIU	Niue Island
LBR	Liberia (Republic of)	NMB	Namibia (Republic of)
LBY	Libya (Socialist People's Libyan Arab Jamahiriya)	NOR	Norway
LCA	Saint Lucia	NPL	Nepal
LIE	Liechtenstein (Principality of)	NRU	Nauru (Republic of)
LSO	Lesotho (Kingdom of)	NZL	New Zealand
LTU	Lithuania (Republic of)	OCE	French Polynesia
LUX	Luxembourg	OMA	Oman (Sultanate of)
LVA	Latvia (Republic of)		

PAK	Pakistan (Islamic Republic of)	SWN	Swan Islands
PAQ	Easter Island (Chile)	SWZ	Swaziland (Kingdom of)
PHL	Philippines (Republic of the)	SYR	Syrian Arab Republic
PHX	Phoenix Islands		
PLM	Palmyra Island (some 50 islands make up the Atoll of Palmyra)	TCA	Turks and Caicos Islands
		TCD	Chad (Republic of)
PLW	Palau (Republic of)	TGO	Togolese Republic
PNG	Papua New Guinea	THA	Thailand
PNR	Panama (Republic of)	TKL	Tokelau Islands
POL	Poland (Republic of)	TJK	Tajikistan (Republic of)
POR	Portugal	TKM	Turkmenistan
PRG	Paraguay (Republic of)	TMP	East Timor
PRU	Peru	TON	Tonga (Kingdom of)
PTC	Pitcairn Island	TRC	Tristan da Cunha
PTR	Puerto Rico (including Culebra, Mona, and Vieques) (not for use in GMF; for ITU use only)	TRD	Trinidad and Tobago
		TUN	Tunisia
		TUR	Turkey
		TUV	Tuvalu
QAT	Qatar (State of)	TZA	Tanzania (United Republic of)
REU	Reunion (French Department of)	UAE	United Arab Emirates
ROD	Rodriguez	UGA	Uganda (Republic of)
ROU	Romania	UKR	Ukraine
RUS	Russian Federation	URG	Uruguay (Eastern Republic of)
RRW	Rwandese Republic	USA	The 48 contiguous States of the United States of America and the District of Columbia (excludes the States of Alaska and Hawaii)
S	Sweden		
SCN	Saint Christopher and Nevis		
SDN	Sudan (Republic of the)		
SEN	Senegal (Republic of)	UZB	Uzbekistan (Republic of)
SEY	Seychelles (Republic of)		
SHN	Saint Helena	VCT	St. Vincent and the Grenadines
SLM	Solomon Islands	VEN	Venezuela (Republic of)
SLV	El Salvador (Republic of)	VIR	United States Virgin Islands (St. Croix, St. John, St. Thomas) (not for use in GMF; for ITU use only)
SMA	American Samoa		
SMO	Western Samoa (Independent State of)		
SMR	San Marino (Republic of)	VRG	British Virgin Islands
SNG	Singapore (Republic of)	VTN	Viet Nam (Socialist Republic of)
SOM	Somali Democratic Republic	VUT	Vanuatu (Republic of)
SPM	Saint Pierre and Miquelon (French Department of)	WAK	Wake Island
		WAL	Wallis and Futuna Islands
SRL	Sierra Leone		
	STP Sao Tome and Principe (Democratic Republic of)	YEM	Yemen (Republic of)
SUI	Switzerland (Confederation of)	YUG	Yugoslavia (Federal Republic of)
SUR	Suriname (Republic of)		
SVK	Slovak Republic	ZAI	Zaire (Republic of)
SVN	Slovenia (Republic of)	ZMB	Zambia (Republic of)
		ZWE	Zimbabwe (Republic of)

G.3 PART 3 - AREAS, DIVISIONS, AND DISTRICTS WITHIN THE CONTERMINOUS UNITED STATES

This part of Annex G contains descriptions and/or maps of certain areas, divisions and districts within the Conterminous United States, which appear in the GMF. (Note: The FAA and FEMA maps are exceptions as they show overseas areas.)

Corps of Engineers Divisions and Districts (no description-see Figure 1)

Tennessee Valley Authority Area (see Figure 2)

The area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37°30'N, and on the east and south by that arc of the circle with center at Springfield, Illinois, and radius equal to the airline distance between Springfield, Illinois, and Montgomery, Alabama, subtended between the foregoing west and north boundaries.

Coast Guard Areas and Districts (see Figure 3)

Atlantic Area-1st, 5th, 7th, 8th and 9th Districts.

Pacific Area-11th, 13th, 14th and 17th Districts.

1st District-Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York except that part north of 42°N and West of 74°-39'W; that part of New Jersey north of 39°-57'N, east of 74°-27'W and northeast of a line from 39°-57'N West to the New York, New Jersey and Pennsylvania boundaries at Tristate.

5th District-Delaware, Maryland, Virginia, District of Columbia, North Carolina, that portion of New Jersey south of 39°-57'N, west of 74°-27'W and south of a line extending northwesterly from 39°-57'N, 74°-27'W to the New York, New Jersey and Pennsylvania boundaries at Tristate.

7th District-South Carolina; and Florida and Georgia, except that part of Florida and Georgia west of a line from the intersection of the Florida coast with longitude 83°50'W due north to a position 30°15'N 83°50'W, thence due west to a position 30°15'N 84°45'W, thence due north to the intersection with the south shore of Jim Woodruff Reservoir, thence along the east bank of the Jim Woodruff Reservoir and the east of the Flint River up stream to Montezuma, Georgia, thence to West Point, Georgia.

8th District- Wyoming, Colorado, New Mexico, Texas, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Arkansas, Louisiana, Mississippi, Alabama, Missouri, Iowa, West Virginia, Kentucky, Tennessee, and; Pennsylvania south of latitude 41° N and west of longitude 79° W; those parts of Ohio and Indiana south of latitude 41°N; Illinois, except that part north of latitude 41°N and east of longitude 90°W; Wisconsin south of latitude 46°20' N and west of longitude 90° W; Minnesota south of latitude 46°20'N and that part of Florida and Georgia west of a line from the intersection of the Florida coast with longitude 83°50'W due north to a position 30°15'N 83°50'W; thence due west to a position 30°15'N 84°45'W; thence due north to the intersection with the south shore of Jim Woodruff Reservoir; thence along the east bank of the Jim Woodruff Reservoir and the east bank of the Flint River up stream to Montezuma, Georgia; thence to West Point, Georgia.

9th District-Michigan; New York north of latitude 42°N and west of longitude 74°39'W; Pennsylvania north of latitude 41°N and west of longitude 79°W; those parts of Ohio and Indiana north of latitude 41°N; Illinois north of latitude 41°N and east of longitude 90°W; Wisconsin except that part south of latitude 46°20'N and west of longitude 90°W; and Minnesota north of latitude 46°20'N.

11th District-California, Nevada, Arizona, and Utah.

13th District-Washington, Oregon, Idaho, and Montana.

14th District-Hawaii.

17th District-Alaska.

Navy-Marine Corps MARS Regions (see Fig. 4)

Region One -- Connecticut, Delaware, Massachusetts, Maine, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont.

Region Two -- Alabama, District of Columbia, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee, Virginia, West Virginia.

Region Three -- Arkansas, Louisiana, New Mexico, Oklahoma, Texas.

Region Four -- Colorado, Iowa, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, North Dakota, Nebraska, South Dakota, Wisconsin, Wyoming.

Region Five -- Arizona, California, Nevada, Utah.

Region Seven -- Alaska, Idaho, Montana, Oregon, Washington.

Region Eight -- Hawaii, Pacific Area U.S. Territories.

Army Areas (see Figure 5)

ARA1 - (States of Alabama, Connecticut, Delaware, Florida, Georgia, Kentucky, Maine, Maryland (less certain area which are included in the Military District of Washington), Massachusetts, Mississippi, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia (less certain areas which are included in the Military District of Washington), and West Virginia).

ARA5 - (Arkansas, Illinois, Indiana, Iowa, Kansas, Louisiana, Michigan, Minnesota, Missouri, Nebraska, Ohio, Oklahoma, Texas (less Fort Bliss), and Wisconsin).

ARA6 - (California, Colorado (less the area west of 108 deg. West), Idaho, Oregon, Montana, Nevada, North Dakota, South Dakota, Utah (less the area east of 111 deg. West), Washington, Wyoming).

Army Frequency Coordination Areas (see Fig. 6)

AFMO CONUS - Alabama, Arkansas, California, (less the National Training Center, Ft. Irwin), Colorado (less the area west of 108° West), Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland (less certain areas which are included in the Military District of Washington), Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas (less Fort Bliss and US Territory within 240 kilometers radius of White Sands Missile Range), Utah (less the area east of 111°West), Vermont, Virginia (less certain areas which are included in the Military District of Washington), Washington, West Virginia, Wisconsin, and Wyoming; Puerto Rico and the Virgin Islands.

Military District of Washington (Headquarters: Washington, D.C.)-District of Columbia, counties of Arlington, Fairfax (less Fort Belvoir, but including Davison AAF), and City of Alexandria in the state of Virginia, and counties of Montgomery and Prince Georges in the state of Maryland.

State of Arizona, Fort Huachuca, Arizona-Arizona.

White Sands Missile Range, New Mexico-New Mexico, U.S. territory within a 240 kilometer radius of WSMR (includes Fort Bliss, Texas), plus the area of Utah and Colorado that lies between 108°and 111°W.

FAA Regions (see Figure 7)

The FAA Regional Boundaries map, which includes regions outside the conterminous United States, is contained herein for information. The names of the regions do not appear in the list of Frequency Assignments to Federal Radio Stations.

NRC Regions (see Figure 8)

Region I-Headquarters at King of Prussia, PA, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont.

Region II-Headquarters at Atlanta, GA, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia.

Region III-Headquarters at Glen Ellyn, IL,

Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin.

Region IV-Headquarters at Arlington, TX, Arkansas, Colorado, Idaho, Kansas, Louisiana, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, Wyoming.

Region V-Headquarters at Walnut Creek, CA, Arizona, California, Nevada, Oregon, Washington.

FEMA Regions (see Figure 9)

Region I-Headquarters at Boston, MA, and underground Federal Response Center (FRC) at Maynard, MA; includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Region II-Headquarters at New York, N.Y.; includes New Jersey, New York, Puerto Rico, and the Virgin Islands.

Region III-Headquarters at Philadelphia, PA; includes Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

Region IV-Headquarters at Atlanta, GA, and underground Federal Response Center (FRC) at Thomasville, GA; includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Region V-Headquarters at Chicago, IL; includes Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

Region VI-Headquarters and underground Federal Response Center (FRC) at Denton, TX; includes Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

Region VII-Headquarters at Kansas City, MO; includes Iowa, Kansas, Missouri, and Nebraska.

Region VIII-Headquarters and underground Federal Response Center (FRC) at Denver, CO; includes Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

Region IX-Headquarters at San Francisco, CA; includes Arizona, California, Hawaii, Nevada, American Samoa, Guam, Commonwealth of the Northern Mariana Islands, and the Federated States of Micronesia.

Region X-Headquarters and underground Federal Response Center (FRC) at Bothell, WA; includes Alaska, Idaho, Oregon, and Washington.

EPA Regions (see Figure 10)

Region I-Headquarters at Boston, MA, Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

Region II-Headquarters at New York, N.Y. New Jersey, New York, Puerto Rico, Virgin Islands.

Region III-Headquarters at Philadelphia, PA, Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia.

Region IV-Headquarters at Atlanta, GA, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee.

Region V-Headquarters at Chicago, IL, Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin.

Region VI-Headquarters at Dallas, TX, Arkansas, Louisiana, New Mexico, Oklahoma, Texas.

Region VII-Headquarters at Kansas City, KS, Iowa, Kansas, Missouri, Nebraska.

Region VIII-Headquarters at Denver, CO, Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming.

Region IX-Headquarters at San Francisco, CA, Arizona, California, Nevada, Hawaii, Guam, American Samoa.

Region X-Headquarters at Seattle, WA, Idaho, Oregon, Washington, Alaska.

GSA Regions (see Figure 11)

Region I-Headquarters at Boston, MA includes: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Region II-Headquarters at New York, NY includes: New Jersey, New York, Puerto Rico, and Virgin Islands.

Region III-Headquarters at Philadelphia, PA includes: Delaware, Maryland, Pennsylvania, Virginia, and West Virginia.

Region IV-Headquarters at Atlanta, GA includes: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Region V-Headquarters at Chicago, IL includes: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

Region VI-Headquarters at Kansas City, MS includes: Iowa, Kansas, Missouri, and Nebraska.

Region VII-Headquarters at Forth Worth, TX includes: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

Region VIII-Headquarters at Denver, CO includes: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

Region IX-Headquarters at San Francisco, CA includes: American Samoa, Arizona, California, Guam, Hawaii, and Nevada.

Region X-Headquarters at Auburn WA includes: Alaska, Idaho, Oregon, and Washington. National Capital Region Headquarters in Washington, DC includes: the District of Columbia, Montgomery and Prince Georges counties in Maryland, Arlington, Alexandria, Fairfax, Loudon, and Prince William in Virginia.

USAF MARS Regions (see Figure 12)

Region One-Connecticut, Delaware, District of Columbia, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont.

Region Two-Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Tennessee, Virginia, West Virginia.

Region Three-Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin.

Region Four-Arkansas, Louisiana, Mississippi, Oklahoma, Texas.

Region Five-Colorado, Idaho, Montana, Oregon, Utah, Washington, Wyoming.

Region Six-Arizona, California, Nevada, New Mexico.

Region Eight-Pacific (Hawaii and U.S. Territories only).

Region Nine-Alaska.

VA National Cemetery System Memorial Service Networks (MSN) by State

MSN 1-Maine, Vermont, New Hampshire, Connecticut, Rhode Island, Massachusetts, Pennsylvania, New Jersey, New York, Maryland, Delaware, Northern 4/5th of Virginia, West Virginia.

MSN 2-Arkansas, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Louisiana, Florida, Puerto Rico, Southern 1/5th of Virginia along the North Carolina border.

MSN 3-North Dakota, Montana, South Dakota, Wyoming, Nebraska, Colorado, Kansas, Oklahoma, New Mexico, Texas.

MSN 4-Michigan, Minnesota, Wisconsin, Iowa, Illinois, Indiana, Missouri, Ohio, Kentucky.

MSN 5-Washington, Oregon, Idaho, Nevada, Utah, California, Arizona, Alaska, Hawaii.

VA Health Administration Integrated Service Network by (VISN) by Boundaries (See Figure13)

VISN 1 Maine, Vermont, New Hampshire, Connecticut, Rhode Island, Massachusetts.

VISN 2 Upper New York State.

VISN 3 Lower New York State. New York City.

VISN 4 Pennsylvania.

VISN 5 Delaware, Maryland.

VISN 6 Virginia, North Carolina.

VISN 7 South Carolina, Georgia, Alabama.

VISN 8 Florida.

VISN 9 Tennessee, Kentucky, West Virginia.

VISN 10 Ohio.

VISN 11 Northern Indiana, Michigan.

VISN 12 Northern Illinois, Wisconsin.

VISN 15 Southern Indiana, Southern Illinois, Missouri, Kansas.

VISN 16 Mississippi, Louisiana, Arkansas, East Texas, Oklahoma.

VISN 17 Central Texas.

VISN 18 West Texas, New Mexico, Arizona

VISN 19 Colorado, Utah, Wyoming, Montana.

VISN 20 Idaho, Washington, Oregon

VISN 21 Northern Nevada, Northern California.

VISN 22 Southern Nevada, Southern California.

VISN 23 Nebraska, Iowa, North Dakota, South Dakota, Minnesota.

Figure 1. Corps of Engineers

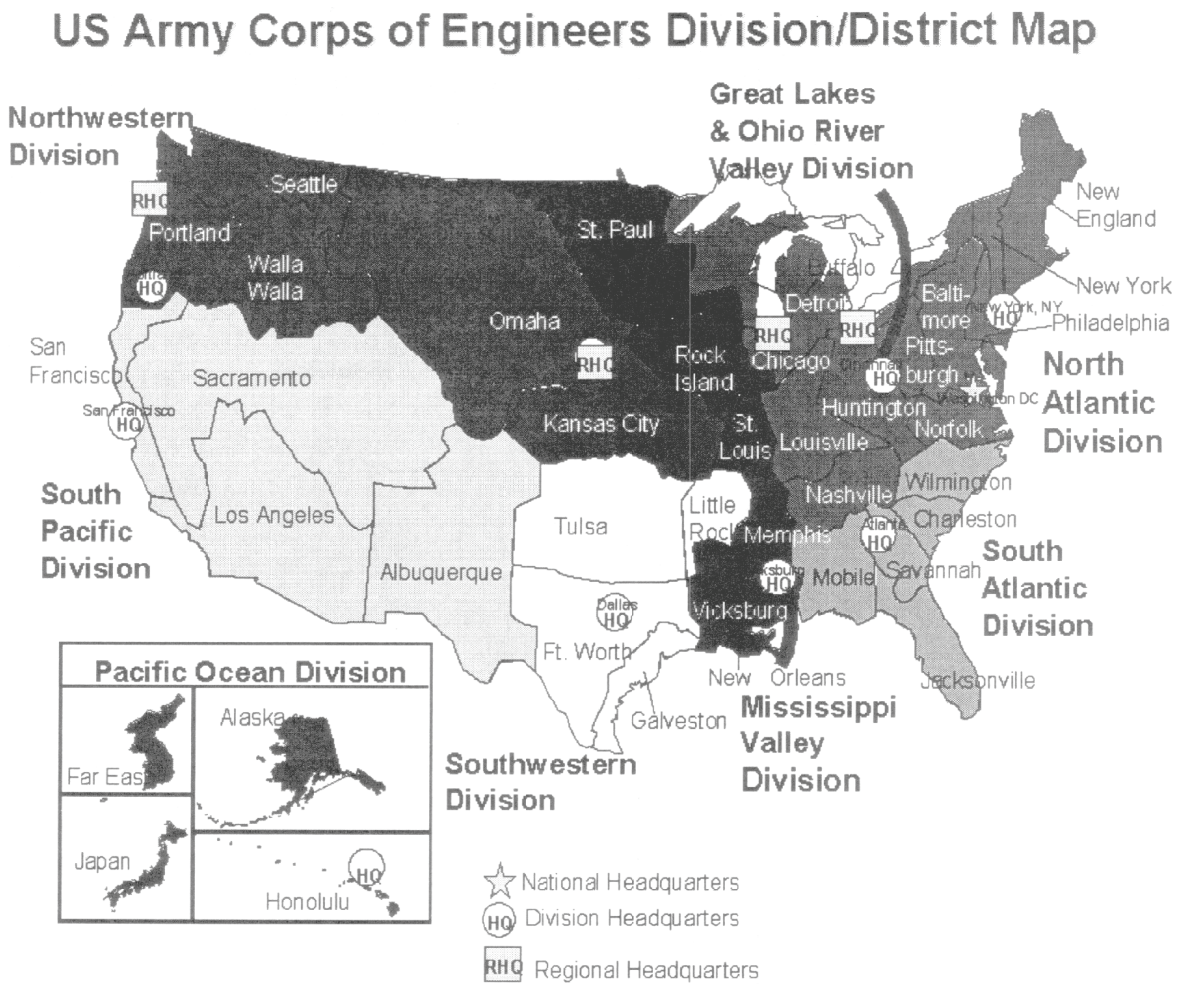


Figure 2. Tennessee Valley Authority

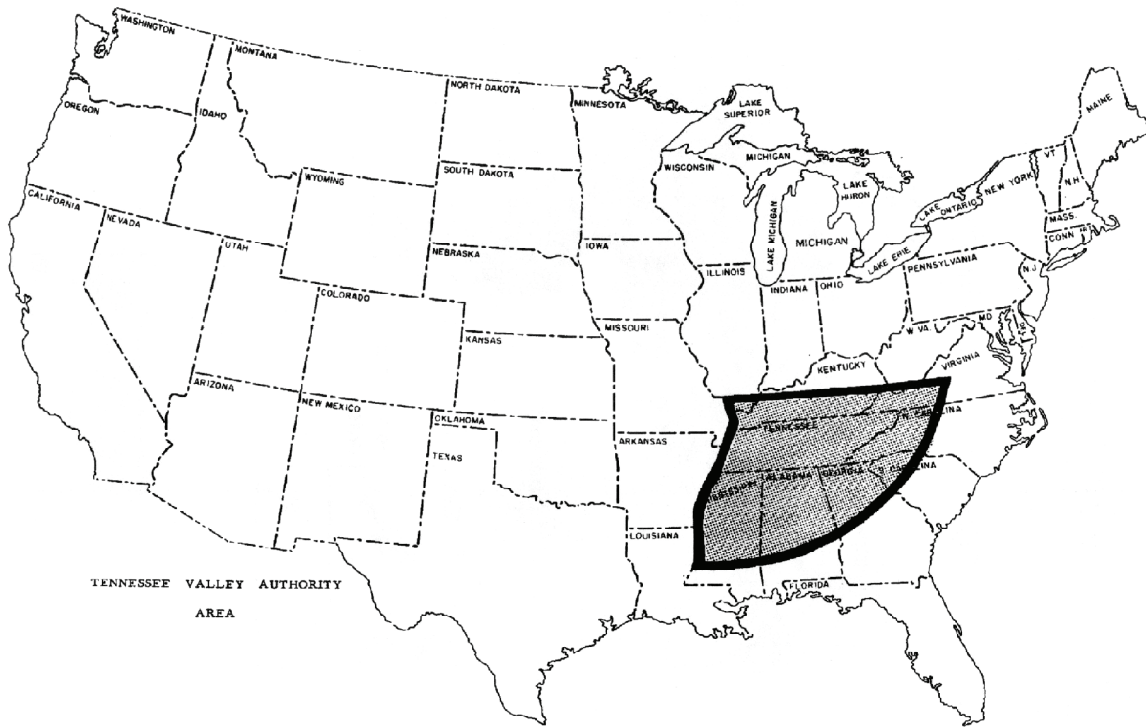


Figure 3. Coast Guard Districts

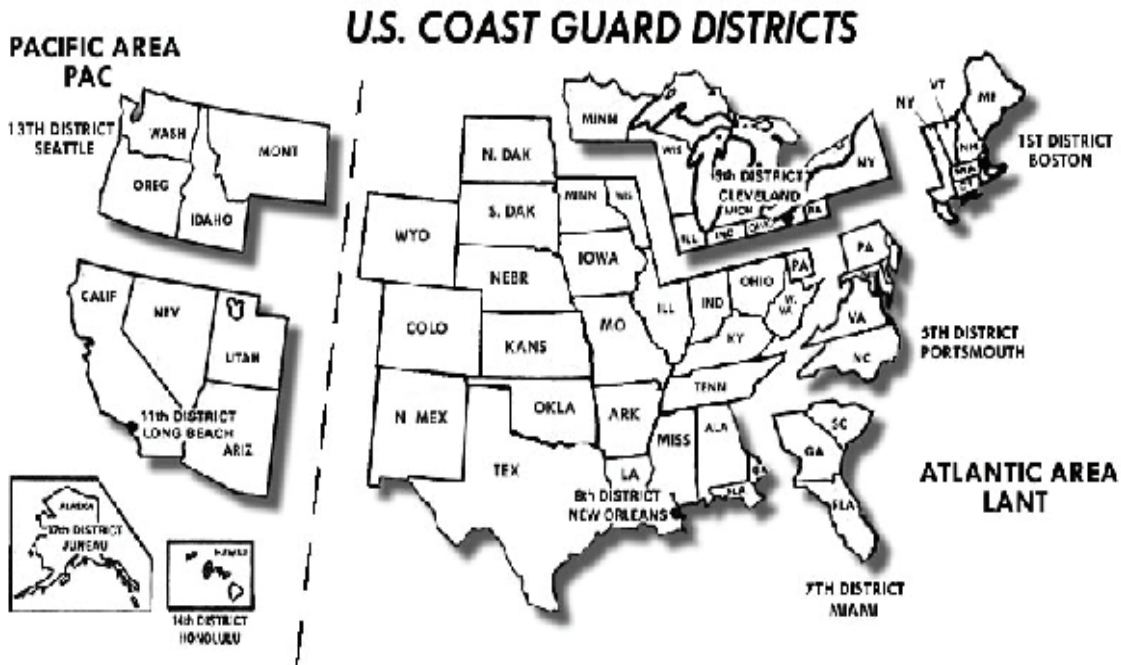


Figure 4. Navy-Marine Corps MARS Regions

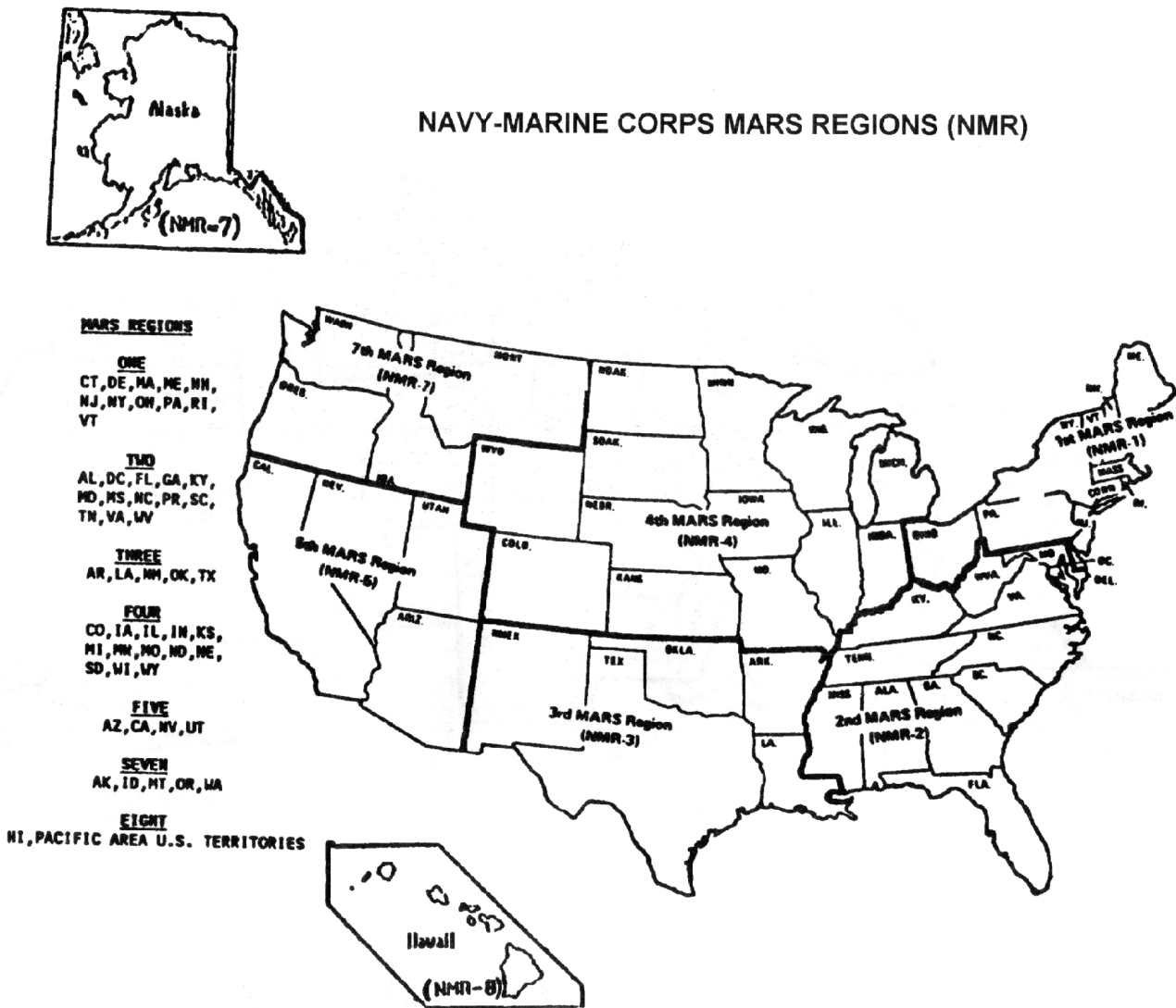


Figure 5. Army Area Coordinators

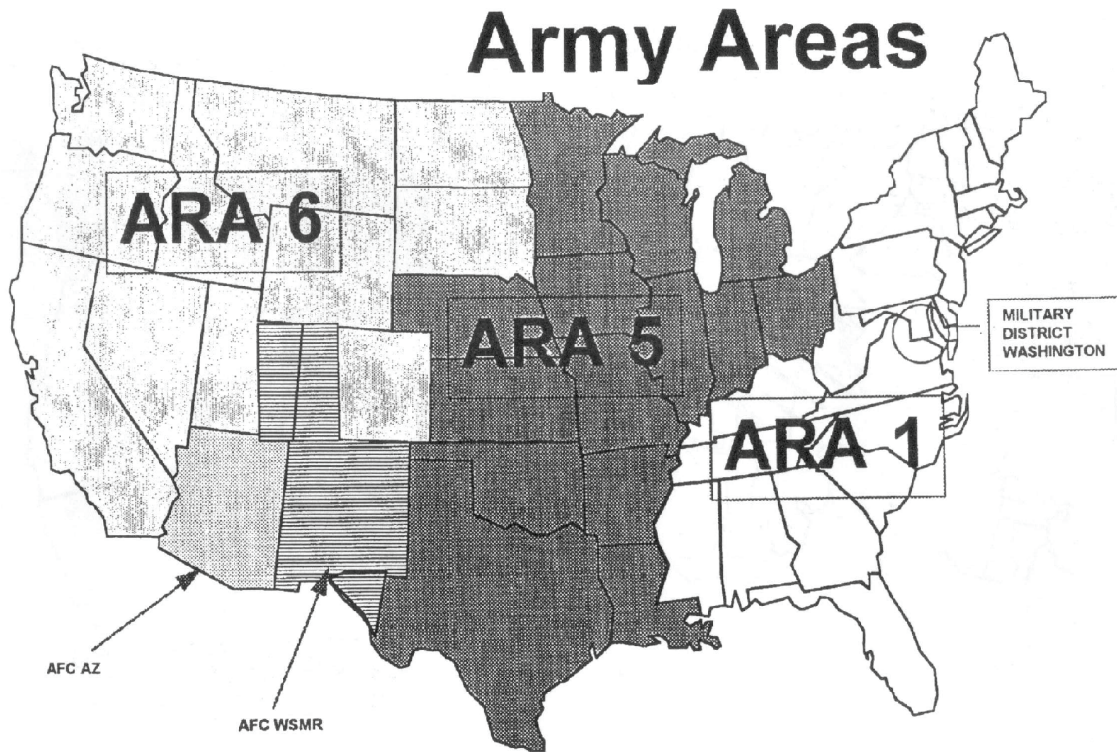


Figure 6. Army Area Frequency Coordinators

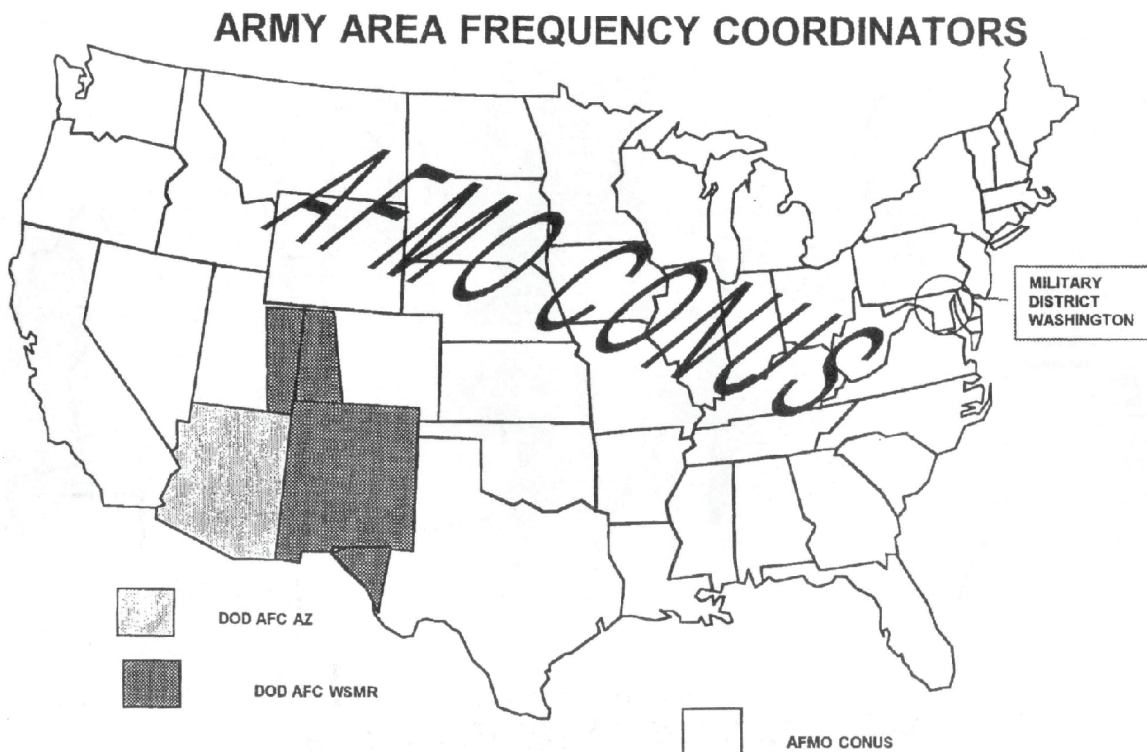


Figure 7. FAA Regions

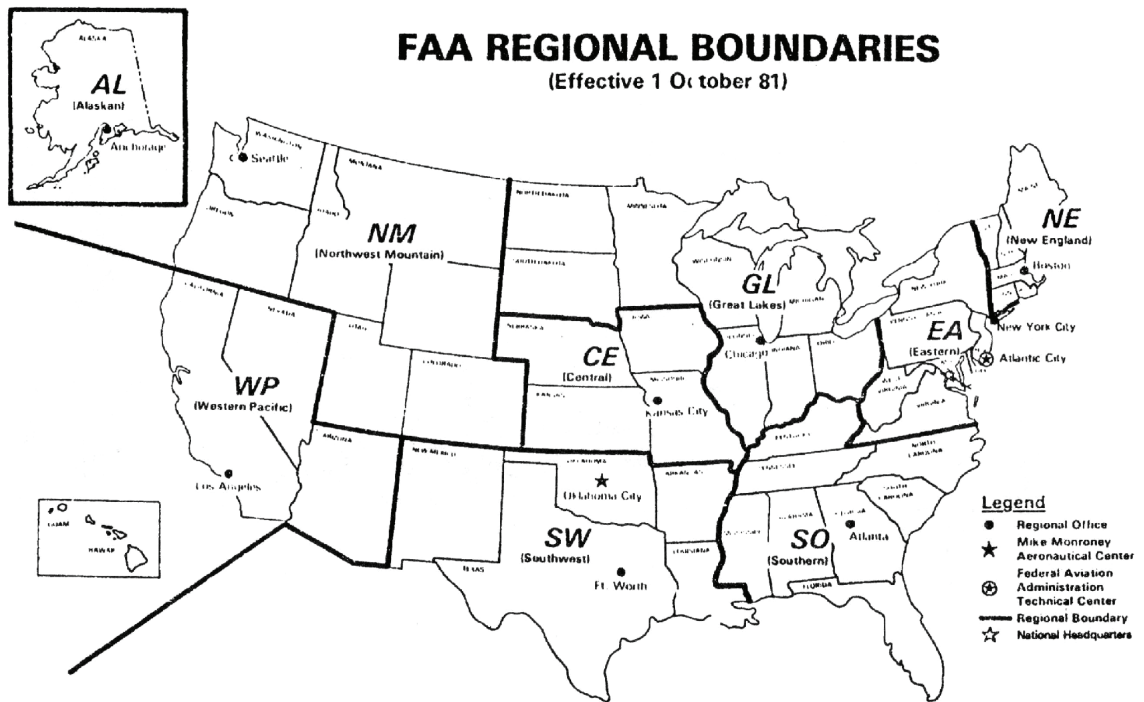


Figure 8. NRC Regions

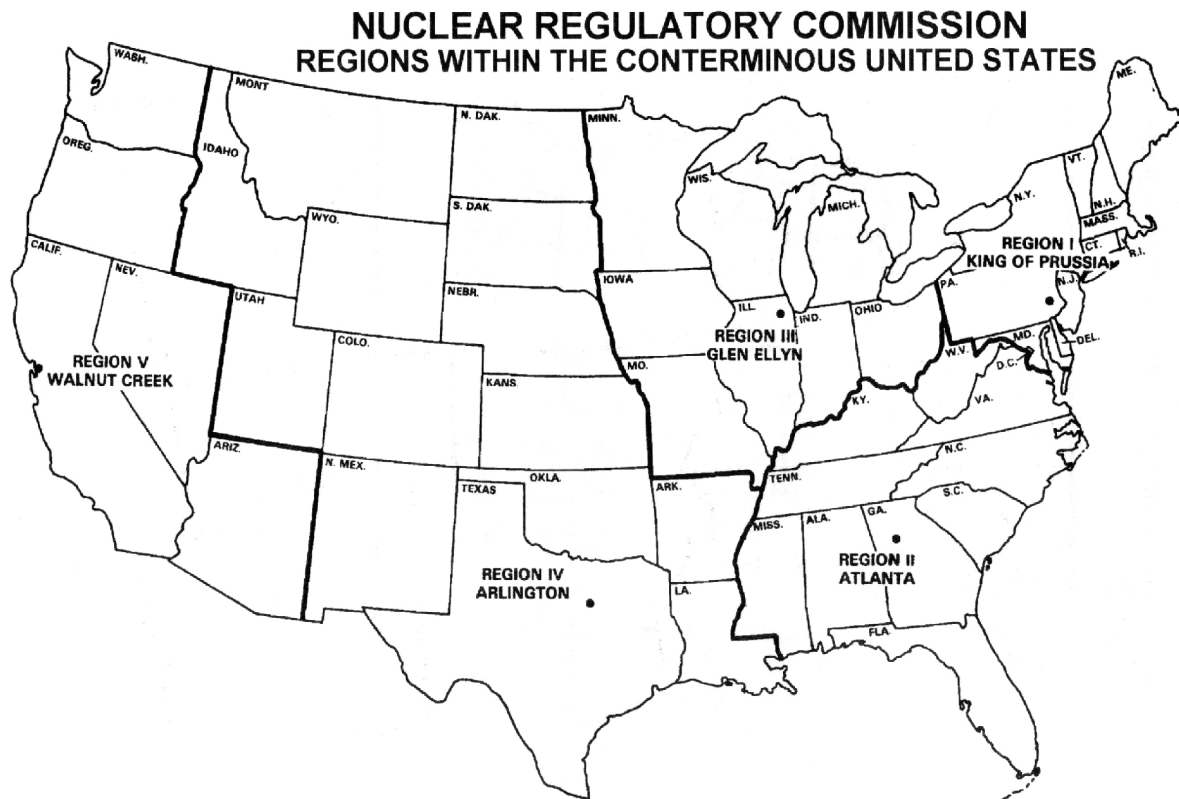


Figure 9. FEMA Regions



Figure 10. EPA Regions

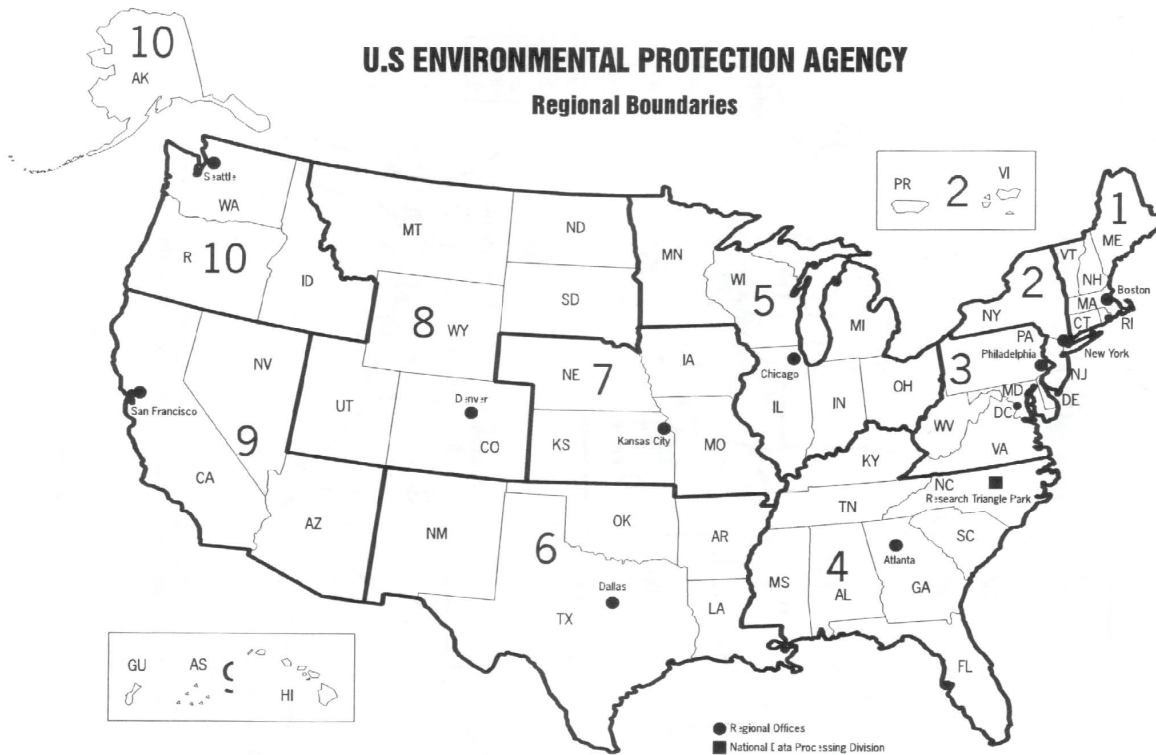


Figure 11. GSA Regions

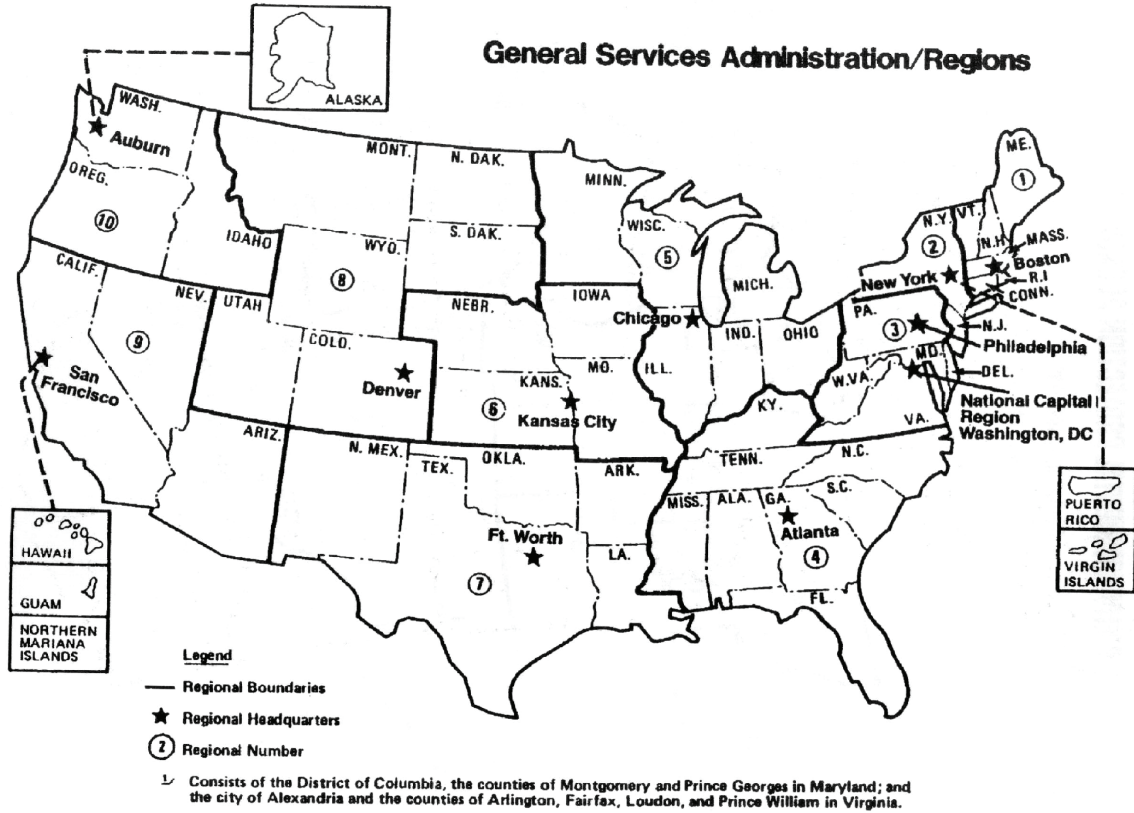


Figure 12. USAF Mars Regions

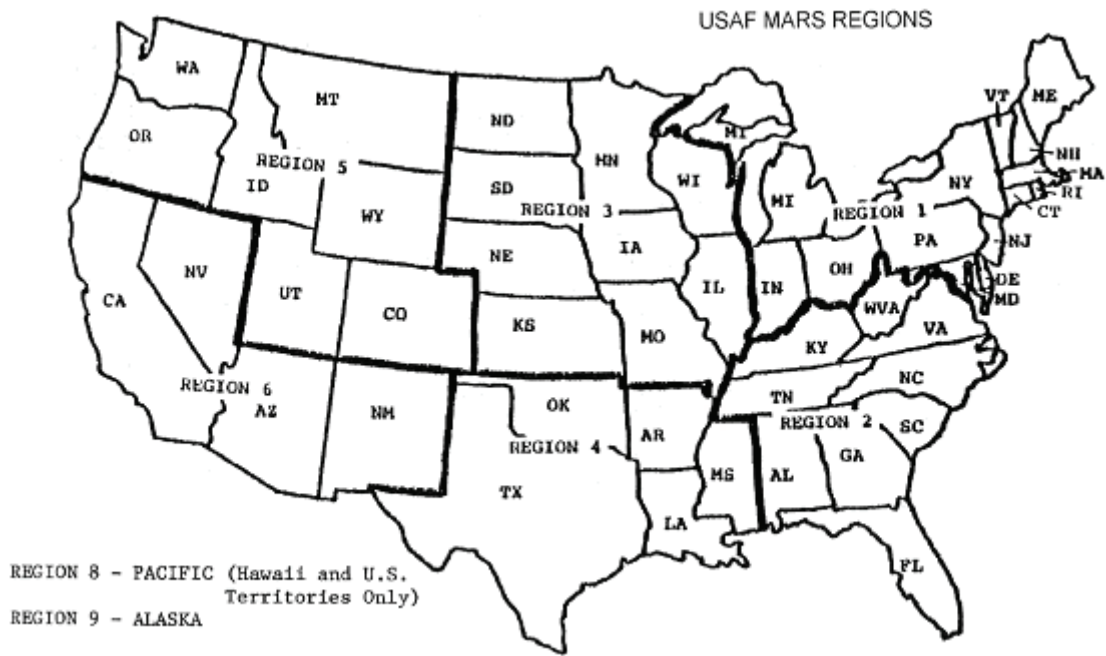
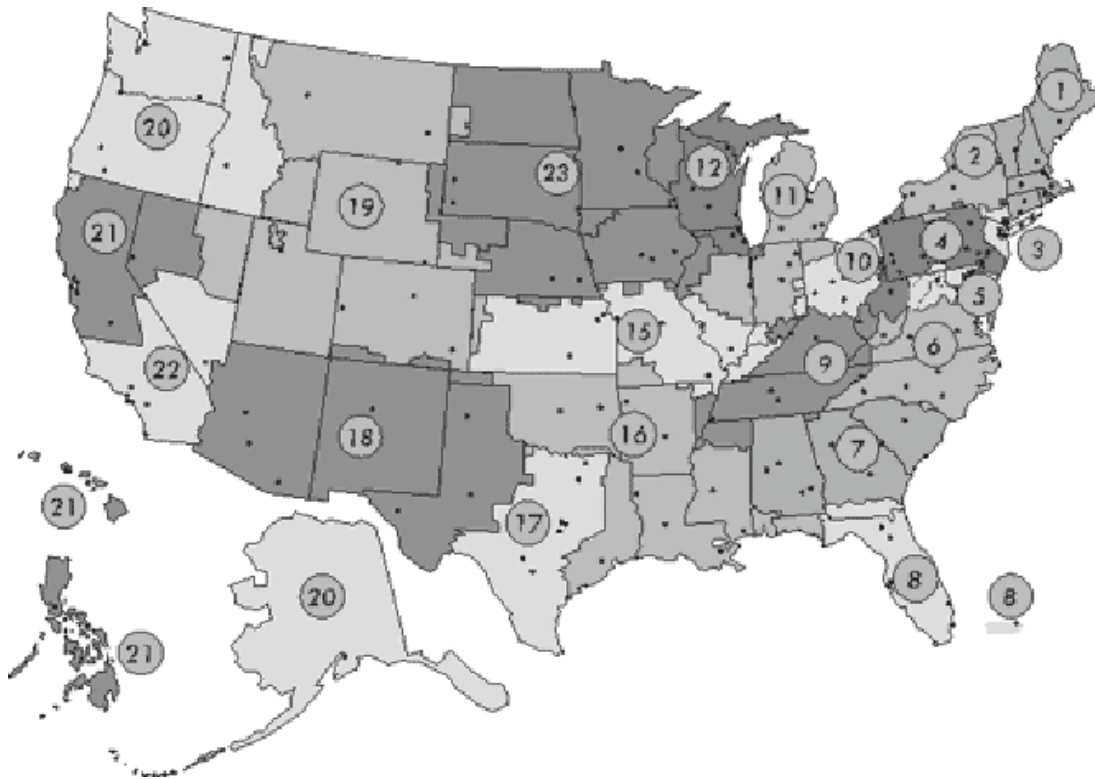


Figure 13. VA Health Administration Integrated Service Network by (VISN) by Boundaries**G.4 PART 4 - COMMON ABBREVIATIONS**

AAF	ARMY AIR FIELD
ARA	ARMY AREA
ARPT	AIRPORT
CGD	COAST GUARD DISTRICT
CO	COUNTY
CY	CITY
DI	DISTRICT
DIV	DIVISION
FT	FORT
IAP	INTERNATIONAL AIRPORT
IS	ISLANDS
LNB	LARGE NAVIGATIONAL BUOY
MAP	MUNICIPAL AIRPORT
MT	MONT, MONTE, MOUNT(S)
MTN	MOUNTAIN(S)
PG	PROVING GROUND(S)
PT	POINT
ST	SAINT

G.5 PART 5 - MANUFACTURER CODES

This part of Annex G contains those manufacturer codes that will be used in the Circuit Remarks (REM) fields of the GMF (see Chapter 9, Section 9.8.2).

AAC	AACOMM, Inc.
AAE	Atlantic Aerospace Electronics Corp.
AAI	Aircraft Armaments Inc.
AAL	Air Force Avionics Lab
AAM	Alascom Inc.
AAN	AANDERAA Instruments
AAO	Aero Astro LLC
AAR	Andrea Radio Corp
AAS	Aiken Advanced Systems
AAT	Airsys ATM
ABA	ABA Electronics Mechanical System
ABB	Applied Communications, Division of Amstar
ABC	AB Net Corp.
ABR	Amber Electro Design, Inc.

ABZ	ABZ Swiss Industrial Group of Telecommunications	AFL	Air Force Lab Built
ACA	Aircraft Accessories Corp.	AGA	Aero Geo-Astro Corp.
ACC	ACE Communications	AGC	Alligator Communications, Inc
ACE	Aeronautical Communications Equipment Inc.	AGI	Agilent
ACI	Air Communications Inc.	AGN	AGA Navigation Aids Limited
ACL	ACR Electronics	AHI	Aleth Inc.
ACM	ASCOM	AHS	A. H. Systems, Inc.
ACN	ACE R/C Inc.	AIA	Alpha Industries, Inc.
ACO	Adcole Corp.	AIC	Atmospheric Instrumentation Research Corp.
ACR	Acrodyne or Acrodyne Industries Inc.	AID	Audio Intelligence Devices Inc.
ACS	AC Sparkplug Co.	AIE	Aire-Sciences, Inc.
ACT	ALCATEL	AII	Atmospheric Instrument Research, Inc.
ACU	Antenna Corporation of America	AIL	Airborne Instrument Laboratories
ACW	Allen D. Cardwell Co.	AIN	Ainslie Corp.
ADA	Advanced Receiver Research	AIO	AIRONET
ADC	Advanced Electronics	AIR	Aireon Manufacture Corp.
ADD	Addison Industries Ltd.	AIS	Air Science Inc.
ADE	Advanced Electromagnetic Inc.	AJE	Aerojet Electosystems
ADF	AEL Defense Corporation	AJT	Aerojet Precision Weapons Co.
ADI	Advance Communications Inc.	AKO	Polyot Aviation and Space Association
ADL	Adler Electronics Co. or Adler Educational Systems Division	ALA	Alakai Electronics
ADM	Admiral Corp.	ALC	Applied Research Corp.
ADN	Advanced Navigation Inc.	ALD	Alder Electronics Inc.
ADO	Advanced Development Laboratory	ALE	Alfred Electronics
ADP	Audiopack Technologies Inc.	ALF	Alford Manufacturing Co.
ADR	Adams Russel	ALG	Allgon Antenna AD
ADS	General Electric/Astro Space Division	ALI	Advance Devices Lab. Inc.
ADT	Advanced Videotech Corp.	ALL	Allison Electronics
ADU	ACS (Advanced Communications System Inc.)	ALM	Alcom Limited
ADV	Audio-Vac	ALN	Alenia Spazio
ADY	Aerodyne	ALO	Alineco
AEA	AEA Electronic Ltd.	ALP	Aleph Inc.
AEC	Allied Electronics Corp.	ALR	Allister
AED	Aero Electronics Development	ALS	American Laser Sys Technology
AEI	Avion Electronics Inc.	ALT	Altech Lansing
AEL	American Electric Laboratories Inc. or American Electronic Laboratories	ALU	Aluma Tower Co.
AEM	Applied Electro Mechanics, Inc.	ALV	Alva Radio Industries
AEO	Aer-O-Com	AMC	Aeornca Manufacturing Corp.
AEP	Aviation Electric Pacific Ltd.	AMD	AMD Electronics
AER	Aeronautical Electronic Inc.	AME	AMECO Equipment Corp.
AES	Aerosonic Corp.	AMF	American Machine and Foundry Co.
AET	Aertech Inc.	AMH	Amherst Systems, Inc.
AEX	Amex Systems, Inc.	AMI	Amecom Division
AFA	A.F. Antronics	AML	Amplica, Inc.
AFC	Antennas for Communications	AMN	American Nucleonics Corp.
		AMO	American Optical Corp.
		AMP	Amphenol Canadian Ltd. or Amphenol Dist. Division

AMQ Als Marine Radio
 AMR Aircraft-Marine Radio Corp.
 AMS American Systems
 AMT Amcor
 AMX Ampex Corp.
 ANA Andrew Antenna Corporation Ltd.
 ANC Andrew California Corp.
 AND Andrew Corp.
 ANE Antenna Electronics Co.
 ANF Aeronutronic Ford
 ANI Antac Industries, Inc.
 ANL Antenna Laboratories Inc.
 ANM Anram Electronics
 ANN Anderson Lab
 ANP Antenna Products Co.
 ANR Antenna Research Associates
 ANS Antenna Specialists Co.
 ANT Arnet
 ANX Antenex, Inc.
 ANY Any & Company Ltd.
 ANZ Anzac Industries
 AOA Allen Osbourne Associates, Inc.
 AOC Air Associates Co.
 AOM Air Comm Electronics
 AOP Aerospatiale
 AOR AOR, Ltd.
 APA Applied Specialities Inc.
 APC All Products
 APD Aircraft Products Co.
 APE Apelco or Applied Electronics Co.
 API Applied Research, Inc.
 APN Applied Concepts
 APO Apollo Manufacturing Co.
 APP Applied Communications
 APS Applied Systems Engineering
 APT Applied Technology
 APV Applied Devices Corp.
 ARA ARTAIS Inc.
 ARB Artars Inc.
 ARC Aircraft Radio Corp.
 ARD A.R. & D. Co.
 ARE Atlantic Research Corp.
 ARF ARF Products, Inc.
 ARH Arcata Associates, Inc.
 ARI Aerospace Research Inc.
 ARJ Aeronautical Radio Inc. or ARINC
 ARK Arkay International Inc. ARL Atir
 Limited
 ARM Armstrong Transmitting Corp.

ARN Aerotron, Inc.
 ARO Aironet
 ARP Aerospatiale
 ARR Amplifier Research Corp.
 ARS Associated Radio Service Co.
 ART Allied Radio Shack
 ARV Arvin Industries Inc.
 ARW Aero Wave
 ARX ARTEX Inc.
 ASA Asahi Optical Co.
 ASC Astronomics Corp.
 ASE Astral Electronics Inc.
 ASG Allied Signal Commercial Aviation
 System
 ASI Alto Scientific Inc.
 ASK AMSC Skycell, Inc.
 ASM Astromarine Products Corp.
 ASN Aselsan
 ASP A/S S.P. Radio
 ASQ AEI: Electronics Ltd. or Associated
 Electrical Industries
 AST Astro Communication Laboratories or
 Astaron Electronics Ltd.
 ASU Astronautics of America
 ASW Air Target Sweden
 ASY Antenna Systems Inc.
 ATA Atacs Corp.
 ATB ATCI Antennas
 ATC Astro Telecom Corp.
 ATD American Training Aid
 ATE Advanced Tech Talk
 ATF Advanced Techcom Inc.
 ATG Antenna Technology Communications,
 Inc.
 ATH Antech Corp.
 ATI Amerasia Technology Inc.
 ATL Atlantic Instrument & Electronics Inc.
 ATM Automation Inc.
 ATN Advanced Telemetry International
 ATO Autotape
 ATR Airtronics Inc.
 ATS Advanced Telemetry Systems, Inc.
 ATT American Telephone & Telegraph
 ATW ATA Defense Industries Inc.
 ATX Advanced Training Systems
 AUA Austin Custom Antennas
 AUD Audio-Sine, Inc.
 AUM Austin Microwave, Inc.
 AUP Autophon

AUR	Autronics	BHA	India Bharat
AUS	Austron	BHC	Bell & Howell Communications Co.
AUT	Autonetics	BIG	Biggs Associates Inc.
AVA	Avanter Inc.	BII	Bison Instruments Inc.
AVC	Avco Corp.	BIO	Biocom Inc.
AVI	Avitron Inc.	BIR	Bird Electronic Corp.
AVK	Avantek	BIT	Bitro
AVM	AVM Instrument Co.	BJH	Bunnell J.H. Co.
AVN	Aerovironment	BKG	BKM Electronics
AVS	Advanced Countermeasures Systems	BKM	B-K Manufacturing Co.
AVT	Avtek Co.	BKR	Becker Avionics
AVX	Audiovox	BLA	Blau-Knox Co.
AXM	Anixter-Mark Co.	BLH	Bell Helicopter Textron, Inc.
AYD	Aydin	BLI	Browning Laboratories, Inc.
AYI	Airport Systems International, Inc.	BLS	Balise
AZD	Azden, Inc.	BLU	Bludworth or Bludworth Marine Division
BAA	Ball Aerospace	BMR	Benmar
BAB	Babcock Electronics Corp.	BMS	Broadcast Microwave Services
BAC	Barry Research Corp.	BNM	Benmar Division of Computer Equipment
BAD	BAE Systems	BNR	Benrad, Inc.
BAE	Barth Engineering & Mfg. Co.	BOA	Boeing Aerospace
BAI	Baird Corp.	BOE	Boeing Aircraft
BAK	Backgrounds Unlimited, Inc.	BON	Bonner Specialties
BAL	Ball Brothers	BOP	Bogan-Presto
BAP	British Aerospace Public, Ltd.	BOT	Boonton Electronics Corp.
BAR	Barrett Electronics	BRA	BR Communications
BAS	Bauer Electronic Manufacturing Co.	BRC	Belmont Radio Corp.
BAU	Bauer Electronics Corp.	BRD	Broadcomm
BAY	Bayside Electronics Co.	BRE	Brelonix, Inc.
BBR	Brubaker Mfg. Co., Inc.	BRI	Bristol Aerospace Ltd.
BCA	Babcock Aerospace	BRL	Balistic Research Laboratory
BCC	British Communications Corp.	BRO	Browning Communications Associates
BCD	Bogen Comm Division Lear Siegler	BRT	Broadcast Electronics
BCO	Benco TV Associates Ltd. Canada	BRU	Brunswick Co.
BDM	BDM Corp.	BRW	Bunker Ramo World Services Corp.
BDS	Bidirectional Microwave Systems	BRZ	Breezcom Inc.
BEB	Beckman/Berk	BSC	British Standard Cable Co.
BEC	Beckman Instruments Inc.	BTA	Benco TV Associates, Ltd.
BED	Berkeley Division of Beckman Instruments Inc.	BTH	British Thompson Houston, Ltd.
BEE	Beech Aircraft Corp.	BTI	Burle Technologies, Inc.
BEG	Bendix/King Mobile Communications	BTL	Blonder Tongue Laboratory, Inc.
BEI	Bayside Electronics Inc.	BTX	Bartex Co.
BEL	Bell Telephone	BUD	Budelman Electronics Corp.
BEM	Belair Electronic Laboratory	BUK	Beukers Co.
BEN	Bendix Corp. or Bendix Aviation Corp.	BUR	Burton Instrumentation, Inc.
BER	Bertea Products or Bertea Corporation	BUT	Butler National Corp.
BET	Beta Co.	BWC	Benrus Watch Co.

BWI Barker Williamson
 BZR Bonzer, Inc.

 CAA Canadian Arsenals, Ltd.
 CAB Campbell Manufacture Company, Ltd.
 CAC Cessna Aircraft Co.
 CAD Cadre Division of Amphenol
 CAE Canadian Aviation Electronics
 CAH Capehart Corp.
 CAI Communication Associates, Inc.
 CAL Cornell Aeronautical Laboratories, Inc.
 CAM Canadian Marconi
 CAN Canoga Electronics Corp.
 CAP Communications Applied Technology
 CAR Canadian Radio Corp.
 CAT Canadian Telephone Co.
 CAW Canadian Westinghouse
 CBC Columbian Bronze Corp.
 CBE Crown Broadcast Electronics
 CBM CBM Electronics
 CBR Cober Electronics, Inc.
 CBW Cable Waves
 CCA CCA Electronics Corp.
 CCB Control Chiefs, Inc.
 CCC Cadion Communications Corp.
 CCD Control Industries
 CCE Comelit Compagnia Electronics
 CCF Coastal Climate Company
 CCH Consultants Choice, Inc.
 CCI Communications Carriers, Inc.
 CCJ Communications Co., Inc.
 CCK Carlson Communication, Inc.
 CCM Communications Components Corp.
 CCO Colt Communications Corp.
 CCP Continental Electric Corporation
 CCR Coherent Radiation Co.
 CDB Computing Devices Co.
 CDC Control Data Corp.
 CDI Consultants and Designers, Inc.
 CDN Cardian Electronics
 CDO Canadian Department of National
 Defense
 CDR Codar Ocean Sensors
 CDS Cubic Defense Systems
 CDW Cardwell Mfg. Co.
 CDU Codan US Inc.
 CEC Columbus Electronics Corp.
 CED Cleveland Electronics, Inc.

CEE Communications Equipment Engineering
 Co.
 CEI Cleveland Electronics, Inc.
 CEL Colorado Electronics
 CEM Continental Electronics Manufacturing
 Co.
 CEN Communications Engineering Co.
 CEO Celesco Industries
 CER Centry Research Corp.
 CES Checkpoint Systems, Inc.
 CET CETEC Vega
 CEU Centurion International, Inc.
 CFD Camfield Mfg. Co.
 CFM California Microwave
 CGE Canadian General Electric Co. or
 Canadian GE Company, Ltd.

 CHA Channel Master Corp.
 CHD Childs
 CHE Challenger Electronics Corp.
 CHI Columbian Hydronxionics Inc.
 CHK Checker Electronics Corp.
 CHL Chelton, Inc.
 CHR Chris Craft Corp.
 CHT Chester Electronics
 CHU CHU Associates
 CHV Chance Vought Aircraft Corp
 CIA Campatnia Industrial Aerospace
 CIC Cubic Industrial Corp.
 CII Communications Industries, Inc.
 CIL Cossoe Intruments, Ltd. (UK)
 CIN Cincinnati Electronic Corp.
 CIR CIR Industries
 CIT Citizens Radio Corp.
 CKC Cook Communications Corp.
 CLA Clarion Corp.
 CLC Control Laser Corp.
 CLD Clegg Division of International Signal &
 Control
 CLE Clegg Laboratories, Division of Squires-
 Saunders Inc.
 CLF California Amplifiers
 CLI Clark Instrument Co.
 CLM Clairmonte Industries
 CLN Calspan Corp.
 CLT California Technology
 CLW Celwave Systems
 CMB Cambridge Consultants
 CMC Comet Company, Ltd.

CME	Century Metal Parts Corp.	CRP	Concord Electronics Corp.
CMI	CMI, Inc.	CRR	Colonial Radio Corp.
CML	Communications Measurement Laboratory	CRT	Cartwright Electronics Inc.
CMO	Canadian Motorola	CRU	Cruise Technology
CMR	COMSAT, RSI	CRY	Carry Phone Corp.
CMS	Cosmos Industries	CSA	CSI Electronics
CMT	Communitronics	CSC	Customs Signal Corp.
CMU	Communitronics Ltd	CSI	Control Science, Inc.
CMW	Comwave	CSP	Communications Specialists
CNA	China Electronic Import and Export Corp.	CSR	Citizen Ship Radio Corp.
CNC	Conic Corp.	CSS	Communications Satellite Corp.
CNE	Com/Nav Electronics	CTA	CTA Space Systems
CNI	Contraves Italiana	CTC	CTI Corp.
CNN	Cannon Electronics	CTM	Continental Microwave and Tool Co.
CNP	Conspec Controls Inc.	CTN	Chemrad Tennessee Corp.
CNR	Conifer	CTP	Carterphone Communications
CNT	Comant	CTR	Cattron, Inc.
CNY	Canyon Communications Corp.	CTT	Connecticut Telephone & Electric
COA	Communication Specialities	CUB	Cubic Co.
COB	Cobra	CUC	Communications Devices Co.
COC	Communication Co.	CUL	Culbertson Industries, Inc.
COD	Conductron Corp.	CUM	Custom Electronic Manufacturing Co.
COE	Communication Electronics Co.	CUR	Curtis Wright Corp.
COH	Cochran	CUS	Cush Craft
COI	Comtech Lab, Inc.	CUT	Cutler Hammer Inc. or AIL Division of Cutler Hammer
COK	Cook Electric Co.	CVL	Carvill International Corp.
COL	Collins Radio Co.	CVR	Convair
COM	Comrex	CWE	Comwave
CON	Continental Electronics, Ltd.	CWI	Cartwright, Inc.
COO	Coro Metrics Medical Industries	CWR	C.W. Radiation Co.
COP	Communications Products Co.	CYB	Cybermation
COR	Continental Radio	CYL	Cylink Corporation
COS	Cosser Electronic	CYT	Cybernet International, Inc.
COT	Contraves AG	DAD	Door Alarm Devices Corp.
COU	Courier Communications, Inc.	DAE	Davco Electronics Inc.
CPA	Computalert	DAG	Dage Electric Co.
CPD	Compudyne Corp. EWI Division	DAM	Danmar
CPL	Codan Pty, Ltd.	DAN	Daniels Electronics Limited
CQP	Cinequip, Inc.	DAP	Dayton Aircraft Products Inc.
CRA	Craig System, Inc.	DAR	Dare, Inc.
CRB	Commercial Resources Communications	DAT	Data Control Systems
CRC	Collins Radio of Canada	DAV	Dalmo Victor Co.
CRE	Comaire Electronics	DAY	Daystrom, Inc.
CRF	Crofs Electric Co.	DBM	Three DBM Systems
CRH	Crouse-Hinds	DBS	DeBernardi Scientific Corp.
CRN	Crylarm	DCE	Decatur Electronics, Inc.
CRO	Crosley		

DCF DCF Systems, Ltd.
 DCI Defense Communications Engineering Inc.
 DCM Delcom
 DEA Decca Radar Ltd. UK
 DEB DEBEG-GMBH
 DEC Decibel Products, Inc.
 DEF Deferral
 DEG EL (Design Engineering Lab, Inc.)
 DEI Defense Electronics
 DEL Delmar Engineering Laboratories
 DEM Demco Electronics
 DEN Denel Aerospace Group
 DER Dentron Radio Corporation
 DES Delstar Corp.
 DET Detroit Bullet Trap Co.
 DEV Develco, Inc.
 DEW Dewey GC, Inc.
 DFN Delfin
 DGI Dayton Granger, Inc.
 DGR Douglas Randall Div. of W.K. Radio Alarm Box DHVDHV, Inc.
 DIC Diamond Antenna-Microwave Co.
 DIE Dielectric Products Engineering Co., Inc.
 DIG Digital Radio
 DIL Diamond Laboratories
 DIM Dimick Manufacture Corp.
 DIR Direction Corp.
 DIT Digitize, Inc.
 DIV Divco Wayne Corp.
 DIX Dixon Industries Corp.
 DJC Dickey-John Corp.
 DJH Dewitt, John H.
 DLA Dumont Division of Ling Altec, Inc.
 DLB Denro Lab
 DLC Dynalab Corp.
 DLF Dell Space Star
 DLN Del Norte
 DMC Digital Microwave Corp.
 DMD Dyna Magnetic Devices
 DMI Data Marine International
 DMR Dubose Marine Radio
 DMT Defiance Machine Tool Co.
 DNE DNE Technologies, Inc.
 DNS Decca Navigator Systems, Inc.
 DNT Del Norte Technology, Inc.
 DOE Domestic Radio
 DOI Domino, Inc.
 DOL Doolittle Radio, Inc.

DOM Dorne Margolin, Inc.
 DOP Davidson Optronics
 DOR Dorsett Laboratories
 DOS Dorsett Electronics Division (LaBarge, Inc.)
 DOU Douglas Aircraft
 DOW Dow Chemical Co.
 DPA Dapa Communications, Inc.
 DPR Data Products, Inc.
 DRA Drake RF Co.
 DRC Dollar, Robert Co.
 DRD Dero Research Development Corp.
 DRG Deskin Research Group
 DRI Decca Radar, Inc.
 DRK Data Radio Corp.
 DRP DRS Precision Echo, Inc.
 DRS Dressler Engineering, Inc.
 DSC DSC Communications
 DSI Daytron Systems, Inc.
 DSY Defense Systems, Inc.
 DTC DTC Communications
 DTE Daytong Electronics, Ltd
 DTM Datum
 DTS Data Transmission Science, Inc.
 DTW Datawell
 DUB Dubrow Development Co.
 DUM Dumont Laboratories or Dumont, Allen B. Laboratories, Inc.
 DUT Duelatron
 DVR Diversitel Communications, Inc.
 DVS Davis Co.
 DVT Dav-Tron Co.
 DXR DX Radio Corp.
 DYA Dynalec Corp.
 DYC Dynamic Communications
 DYM Dymec
 DYN Dynatronics, Inc.
 DYN Dynair Electronics
 DYS Dynascan Corp.
 EAD European Aeronautic Defense and Space Company
 EAG Eagle-Picker Industries, Inc.
 EAI Elta-Ashdad Israel
 EAK Easker
 EAR Earmark, Inc.
 EAS Eastern Industries, Inc.
 EAT Eagle Technologies, Inc.
 EBC EB Corp.
 EBN EB-Nera

EBP	Emcee Broadcasting Products Inc.	EMB	Emergency Beacon Corp.
ECC	ECI Telecom Ltd.	EMC	Electronics Missiles Communications, Inc.
ECI	Electronics Communications, Inc.	EMD	Electronics & Manufacturing Co.
ECL	Eaton Corp. AIL DIVN.	EME	Emerson Research Labs
ECM	Encomm, Inc.	EMH	Electro-Mechanics Co.
ECO	Econolite	EMI	EMI-Cossor Electronics Ltd. or EMI Marine Division
ECR	Eddcor	EML	EMI Electronics, Ltd.
ECT	Electrotape	EMP	Electromagnetic Processes, Inc.
EDA	Electro Data, Inc.	EMR	Electro Mechanical Research, Inc.
EDC	Electronic Development Corp.	EMS	Electrometrics
EDE	Environment Development Corp.	EMT	EMR (Sangamo Weston, Inc.)
EDI	Edison Pageitalia	EMW	Eastern Microwave Corp.
EDL	Edler Industries	ENA	ENAC/Triton Corp.
EDO	EDO Corp.	ENC	Electronic Navigation Corp.
EDR	EDO Aire	END	ENDECO
EDZ	Electronic Devices Corp.	ENG	Engineering Services
EEB	EEB (Electronic Equipment Bank)	ENI	Electronic Navigation Instruments
EEC	Electronic Engineering Co.	ENR	Environmental Research Institute
EEE	EMCEE, Co.	EOI	Elmer (Italy)
E EI	EICO Electronics Instruments Co.	EOS	Electro Optical Systems
EEL	Emerson Electric Co.	EPL	Epsilon Lambda Electronics Corp.
EER	EER Systems	EPS	EPSCO, Inc.
EES	Elisra Electronics System, Ltd.	ERA	Ericsson, L.M. Ltd.
EFD	EF Data	ERC	ERCO Radio Laboratories
EGD	Electrogarde, Inc.	ERD	Emhiser Rand
EGG	Ernst, Grier Germerhausen Co.	ERI	Electronics Research Industries
EGX	Energy-Onix	ERM	Erim International Inc.
EII	EMC Instrument Co.	ERN	Erichson
EIM	Eitel McCullouth, Inc. (EIMAC)	ERP	Erapsco
EIP	Electromatic, Inc.	ERX	Emhiser Research, Inc.
EIT	Eitel Electronics	ESC	ESCO
EKA	Eureka Sys, Inc.	ESD	ESL, Inc.
EKP	EK Products, Inc.	ESE	Electronic System Technology
ELA	Ellason	ESG	Eurosatellite GMBH
ELB	Electrolab	ESI	Energy Systems, Inc.
ELC	Electronics Concepts, Inc.	ESL	Electromagnetic Spectrum Laboratory
ELD	Eldico Electronics	ESM	Espey Manufacturing Co.
ELE	Electron Corp.	ESN	Espey Mfg Electronics
ELF	Electrofact NV	ESP	Electronic Speciality Co.
ELI	Electrac, Inc.	ESQ	Electronic Signal Products
ELL	Electronic Laboratories, Ltd.	ESR	Esterline
ELM	Electronic Material International, Ltd.	ESS	Electronic Support Systems, Inc
ELO	Eldorado Electrodata	EST	Electric Service Co.
ELR	Electrofab	ESY	E-Systems
ELS	Electromagnetic Sciences, Inc.	ETC	Electromagic Technology Corp.
ELT	Electrotechnic Corp.	ETE	Enterprise Electronics, Inc.
ELU	ELTS Unlimited, Inc.	ETN	EMS Technologies LST
ELY	Eldyne, Inc.		
EMA	Electro Magnetic Sciences Co.		

ETO Electro Systems International
 ETR Ecatek, Inc.
 ETS Electronic Systems Technology
 EEU European Antennas
 EVC Electric Voice Corp.
 EXE Executive Communications
 EXI EXICOM New Zealand, Ltd.
 EXT Executone, Inc.
 EXX EXETEX
 EYR Eyring Research Institute

 FAA Federal Aviation Administration
 FAC Fairchild Engineering Corp.
 FAG Fargo Co.
 FAI Fairchild Stratos
 FAL Frant, Alan I.W.
 FAM F & M Electronics
 FAN Fannon
 FAP Fran Air Products Co.
 FAR Farnsworth TV Radio
 FAS Ford Aerospace Corp.
 FCC Federal Communication Corp.
 FCM Fairchild Camera and Instruments
 FCO FINCO
 FDC Fairchild Data Corporation
 FEC Farinon Electric
 FED Federal Telephone Radio Corp.
 FEI Florida Communications and
 Electronics, Inc.
 FEL Frequency Engineering Laboratories
 FEM FEMCO, Inc. or FEMCO Div. Gulton
 Industries
 FER Ferguson Communications, Inc.
 FET Federal Telegraph Co.
 FFE F-F Electronics
 FGE F. G. Engineering
 FGI Fleetwood Group, Inc.
 FHM F & H Manufacturing Corp.
 FIB Fibercom
 FIC Ferritronics
 FIG Figgie International
 FIL Filmdex Corp.
 FIN Finney Co.
 FLA Flam Russell
 FLE Flightline Electronics
 FLL Flight Refuel, Ltd.
 FLO Flotronic Products, Inc.
 FLR Flir Systems, Inc.
 FLT Flite-Tronics

FMI Farinon Microwave
 FNT Fonet, Inc.
 FOK Fokker
 FON Fontek
 FOR Fort Worth Tower Co.
 FOS Foster Airdata Systems ,Inc.
 FRA Francis Industries, Inc.
 FRH French Center National D'Etudes
 Spatiales (CNES)
 FRL Fisher Research Laboratory, Inc.
 FRV Fraser-Volpe
 FRW Freewave, Inc.
 FSC Federal Signal Corp.
 FSI Frequency Source, Inc.
 FSR Federal Signal Radio
 FSS Federal Sign and Signal
 FUE Fuchs Electronics
 FUJ Fujitsu Tem Corp. of America
 FUR Furuno
 FUT Futaba
 FWC F.W. Carpenter Manufacturing Co.

 GAB Gabriel Corp.
 GAC General Atronics Corp.
 GAD Gates American Corp.
 GAE General Aviation Electronics
 GAI Garmin International
 GAL Granger Associates ,Ltd.
 GAM GAM Electronics, Inc.
 GAP General Avionics
 GAR Garrett Manufacturing, Ltd.
 GAS Grumman Aerospace Corp.
 GAT Gates Radio Co.
 GAW Gamewell Division of Gulf Western
 GBC General Bronze Corp.
 GDC General Development Corp.
 GDE General Dynamics/Electronics
 GDI Godfrey Engineering, Inc.
 GDN Geodynamics Corp.
 GEC GEC Telecommunications, Ltd.
 GEE General Electric England
 GEI Galaxy Electronics, Inc.
 GEL General Electronics Laboratories, Inc.
 GEM Gem Marine Products
 GEN General Electric Corp.
 GEO Geodyne Corp.
 GEP Genesys Systems
 GES Geophysical Survey System, Inc.

GEV	Genave	HAC	Harris Corp.
GHH	GH Harlow, Inc.	HAD	Harris Aerospace Systems Divn.
GIB	Gibson Antennas	HAE	Harbor Electronics
GIC	General Instrument Corp.	HAI	Hallmark Instruments, Inc.
GII	Gulton Industries, Inc.	HAK	Harkins Radio
GIL	Gilfillan Bros, Inc.	HAL	Hallicrafter Co.
GIM	Gimeni III	HAM	Hammarlund Manufacturing Co. or Dumont Division of Hammarlund
GIT	Georgia Institute of Technology	HAN	Handar Company
GLB	GLB Electronics, Buffalo, N.Y.	HAP	Hornet Antenna Products Co.
GLO	Globe Industries	HAR	Harvey Radio Laboratories, Inc.
GLR	G&L Marine Radio	HAS	Hastings Raydist, Inc.
GMC	General Motors Corp.	HAY	Hays Corp.
GME	General Microwave Services	HAZ	Hazeltine Corp.
GMI	General Microwave Corporation	HBS	Huber and Suhner AG
GMS	Galaxy Micro Systems, Inc.	HCC	Hal Communications
GMW	Global Microwave, Inc.	HDL	Harry Diamond Lab.
GNT	Grant Applied Physics	HDS	Household Data Services, Inc.
GOA	Goodyear Aerospace Corp.	HEA	Heath Co.
GOM	Geomation	HEC	Hecules Defense Electronics Systems
GON	Gonset Corp. or Gonset Division of Aerotron or Dumont Division of Gonset	HEK	Hekimian Laboratories, Inc.
GOT	Geotel Development	HEL	Hermes Electronics
GOU	Gould, Inc.	HEN	Hendys Two Way Radio Service
GPA	Gans, Pugh & Associates, Inc.	HEP	Hewlett Packard
GPI	General Precision Inc., Ltd. (UK)	HER	Hermer Electronics, Ltd.
GPL	General Precision Laboratories or Singer-General Precision, Inc.	HES	Harbor Electronics Services
GRA	Granger Associates or Bauer Broadcast Division of Granger	HFI	Harris Farinon, Inc.
GRC	General Radio Co.	HIC	Harris Intertype Corp.
GRE	GRE America	HII	Herley Industries
GRO	Ground Data Corp.	HIQ	HI-Q Electronics, Inc.
GRR	Green Mountain Radio Research	HIT	Hittite Microwave
GRT	General Radiotelephone Co.	HJH	Harrison, John H.
GRU	Gruen Watch Co.	HKL	Henitz & Kaufman, Ltd.
GRY	Gray Radio Company, Inc.	HLI	Holobeam Laser, Inc.
GSE	General Service Engineering	HMC	Hartman Marine Equipment Corp.
GSS	Geo Space Systems, Inc.	HME	Hartman Marine Electronics Corp.
GTC	Granite Telecom Corp.	HMI	HM Electronics, Inc.
GTE	GTE Sylvania	HMK	Heimark Electronics Laboratory
GTL	GTE Lenkurt	HMS	Herley Microwave Systems
GTP	GTE Products Corp.	HMT	Hamtronics
GTS	Gemtronics	HOB	Hobby Lobby International
GUD	Gudeman Co.	HOF	Hoffman Electronics Corp.
GUL	Gulton	HON	Honeywell
GYE	Glenayre	HOR	Horizon
GYR	Gyrodyne Co.	HOU	Houston Corp.
		HRB	HRB Singer, Inc.
		HRC	Henry Radio Co.

HRM H.R. Smith
 HRS Hendy Radio Service
 HSA Hallands Signal Attaraten
 HSC Hawkeye Systems Corp.
 HSD Halstead
 HSS Hydro Space Systems
 HSY Hartman Systems (Div. of ATO)
 HTC Hughes Tool Co.
 HTI Hamtronics, Inc.
 HTS HT Systems
 HUA Hamilton Standard Division-United Aircraft
 HUB Hubcom (Hubbard Communications, Inc.)
 HUD Hudson American
 HUG Hughes Aircraft Co.
 HUL Hull Electronics Co.
 HUN Huntley
 HUS Hustler
 HYB Hybrid Network, Inc.
 HYE Hy-Gain Electronics Corp.
 HYG Hygain Antenna Products
 HYN Hytenna
 HYP Hyperlink Technologies
 HYT Hytel Corp.

 IAI Israel Aircraft Industries, Ltd.
 IAL International Aeradio, Ltd.
 IBM International Business Machine Co.
 ICM ICOM
 ICO International Corp.
 ICS Industrial Comm Systems
 IDE IDC Electronics
 IDI Identification Devices, Inc.
 IEC IEC Electronics Corp.
 IEI Intercontinental Electronics, Inc.
 IEM Intermec
 IFD In-Flight Devices Corp.
 IFR Instrument Flight Research Corp.
 IGT Insight Technology
 III Intellitech Industries, Inc.
 IIT IITRI
 IKE Ikegami Electric Co.
 ILS International Laser Systems, Inc.
 IMA ITT Mobile Communications
 IMC International Microwave Corp.
 IMM International Mobile Machine, Inc.
 IMT International Mobile Telephone Systems
 INC INTRAC

IND Industrial Radio Corp.
 INE Intech, Inc.
 INL Inland Communications, Inc.
 INM Intermic
 INO Inovonics Corporation
 INR Intrelex, Inc.
 INS IN-SNEC
 INT Interstate Electronics Co.
 INV Internav, Ltd.
 IOT Interstate Oil Transport Co.
 IRC Islip Radio Corp.
 IRE International Radio Electronics Corp.
 ISC International Signal and Control
 ISD ISC Defense Systems
 ISE International Standard Electric Corp.
 ISI IFR Systems, Inc.
 ISS Information Station Specialist
 IST Innerspace Technology, Inc.
 ISY International Ltd.
 ITA ITA Electronic Corp.
 ITB ITT Electron Tube Division
 ITC ITT Telecommunications
 ITD ITT Decca, Inc.
 ITF ITT Defense Communications
 ITG ITT Gilfillan
 ITH Indiana Technical Corp.
 ITI ITI Electronics, Inc.
 ITK ITT Kellogg Communication System
 ITM ITT Mackay Marine
 ITO ITT Aerospace/Optical
 ITP International Telephone & Telegraph Corp. or ITT Industrial Products
 ITR Itek Corp.
 ITS ITT Standard
 ITT ITT Federal Laboratories
 ITV ITT Avionics
 IWC Interwave Communications
 IWI Insulated Wire, Inc.
 JAB Jaybeam
 JAC JASCO International
 JAH Janco Inc.
 JAM Jampro Antenna Co.
 JAR Robert A. Jones
 JAS Jasik Laboratory
 JAY Jay Tapp Inc.
 JCA J.C. Air
 JCC J.C. Chastain
 JCI Johnson Control, Inc.

JCP	J.C. Penney Company	KNI	Knight Electronics Corp.
JDE	John Deere	KNR	Kitronic Labs Inc.
JDT	Johnson Data Telemetry Corp.	KOE	Konigsberg Electronics, Inc.
JEF	Jefferson Ray, Inc.	KOK	Kokusai Electric Co.
JEP	Jet Propulsion Laboratory	KOL	Kollsman Instrument Corp.
JER	Jerrold Electronics Corp.	KOR	KOR Electronics, Inc.
JET	Jetronix	KOV	Kongsberg Vapenfabrikk
JFD	JFD Research-Development Laboratories	KRA	Kraft Systems
JHS	J&H Smith Mfg., Co.	KRD	Korad Corp.
JHU	Johns Hopkins University	KRE	Kreco Co.
JNL	Janel Labs	KRI	Kris Inc.
JNN	Johnson Associates	KRL	Kahn Research Laboratories
JOH	Johnson E.F.	KTI	Keltec Industries
JRC	Japan Radio Co.	KUB	Kubota Kisho Shokki Co.
JRD	RAYJ	KUS	Kustom Signal Corp.
JRL	Japan Remote Control Company, Ltd.	KUX	Kustom Electronics Inc.
JRS	Joes Radio Shop	KVH	KVH Industries, Inc.
JSB	J.S. Betts Co.	KYD	Kyokuto Denshi
JVC	JVC Corp.		
KAL	K and L Microwave Inc., A Dover Tech Co.	LAA	Los Alamos Technical Associates, Inc.
KAM	Kaman Electronic Systems Division	LAB	La Barge, Inc.
KAR	Kaar Engineering	LAF	Lafayette Radio or Lafayette Radio & Electronics
KAT	Kathrein, Inc.	LAG	LAG Engineering
KAV	Kavouras, Inc.	LAM	LaFayette Micro
KAW	Kawasaki Industries	LAN	Lance Antenna Corp.
KDC	Kyoritsu Dempa Co.	LAP	Lapointe Industries, Inc.
KDK	KDK Inc.	LAR	Largo Electronic Manufacturers Inc.
KEA	Kearfott Engineering Corp. USA	LAS	Larson Electronics
KEB	Kebby Microwave Corp.	LAT	Latus D.N. & Co.
KEC	KEL Corp.	LAV	Lavoie Laboratories, Inc.
KED	Kenwood	LCA	Univ. of Lowell Ctr. for Atmospheric Research
KEI	Keith Anderson Co. or Keith V. Anderson	LCM	Lecom, Inc.
KEL	Kelvin Hughes, Ltd.	LCO	Link Communications
KEN	Kennedy Co.	LDS	Loral Data Systems
KEY	Key Systems, Inc.	LEA	Lear, Inc.
KFE	K-F Electronics	LEC	Lorain Electronics Corp.
KIE	Kinn Electronics Corp.	LED	Lucas Ledex
KIG	Kingfisher	LEE	Lenkurt Electric Company of Canada, Ltd.
KIL	Kilgore Corp.	LEG	Leigle Instruments, Ltd.
KIM	Kimball Products Co.	LEI	Leigh Instruments, Ltd. or Leigh Systems
KIN	King Radio Corp.	LEN	Lenkurt Electric Co.
KIS	Kings Electronics Co.	LET	Lectrosonics, Inc.
KKC	Kobe Kogyo Corp.	LFC	LFE Electronics Corp.
KLM	KLM Communications		
KMC	Kinemetrics		
KMU	Kalmus		

LFE Laboratory for Electronics, Inc.
 LGD L'Garde
 LGT Logis-Tech Inc
 LIB Librascope
 LIG Lightcraft Avionics
 LII Litton Industries
 LIL Lincoln Laboratory
 LIN Ling Systems, Inc.
 LIR Linkradio or Litton Educational
 Technical Div. or Gonset Division of
 Layco, Inc.
 LIT Litton Systems, Ltd.
 LIV Livermore Data Systems
 LKW Linkavit Wireless, Inc.
 LLC Laset Link Corp.
 LLE L.L. Electronics
 LLL Lawrence Livermore Laboratory
 LMB Lambda RF Systems
 LNN Linear Corp.
 LNR LNR Communications, Inc.
 LOA Los Alamos National Laboratories
 LOC Lockheed Electronics
 LOE Loral Electronics Corp.
 LOG Logimetrix, Inc.
 LOK Lotek
 LOM Lockheed Martin Astro Space
 LOR Lorrain County Radio Corp.
 LOS Lockheed Sanders, Inc.
 LOT Lotran, Inc.
 LPB Low Power Broadcast Co.
 LPE Lambda Pacific Engineering
 LRE Lorenz
 LSB Lear Siegler/Bogen
 LSC L-3 Space Communications
 LSI Linear Systems, Inc.
 LTS LTV Aerospace Defense Co. (Sierra
 Research Division)
 LTV Ling Temco Vaught, Inc.
 LUC Lucos Air Space
 LUE Lunar
 LUG Laguna Industry
 LXE LXE, Inc.
 LYN Lynch Communications Systems, Inc.

 MAA Maxar
 MAB M/A Comm AC, Inc.
 MAC Marconi Instruments, Division of
 English Electronics
 MAD Midwest Audio Corp. or Madigan Corp.

MAE Marine-Air Systems, Ltd.
 MAF MAFCO
 MAG Magnavox Co.
 MAH Martch Co.
 MAI MAICO Hearing Instruments or Mattel,
 Inc.
 MAJ Majestic Radio-Television Co.
 MAK Mark IV Industries, Ltd.
 MAL Marelli Lenkurt Electric
 MAM M/A COMM MAC
 MAN Manson Laboratories, Inc.
 MAR Mark Products Co.
 MAS Mid American Relay Systems
 MAT Matsushita Electric Corp.
 MAX Maxson Electronics Corp. (Electronics
 Design)
 MAY Marine Technical Division of Dayton
 Aircraft
 MBA MB Associates
 MBC Meteor Communications Consultants,
 Inc.
 MBE Marcel Bassaulet Electronics
 MBI MIL 3, Inc.
 MBK Mobile Mark Antenna
 MBR Malibu Research
 MCA Micro-Avionics
 MCC Microcom Corp.
 MCD McDonnell Aircraft Corp.
 MCE Micro Electronics
 MCF Microflect
 MCH Mitchell Camera Corp.
 MCI Marconi Radio
 MCJ Marconi Electronics
 MCL Microwave Cavity Laboratory
 MCM McMartin Industries, Inc.
 MCO Micro Communications Co.
 MCS Micronetics
 MCT Micro Control Specialities
 MDC Microdyne Corp.
 MDD McDonnell-Douglas Corp.
 MDI MDM, Inc.
 MDM Microwave Design Manufacturing, Inc.
 MDS Metrodata Systems
 MDT MDTT, Inc.
 MDY Microwave Data System
 MEC Mechanical Product, Inc.
 MEE Metric Engineering
 MEG Meggiorian Group
 MEI Meisei Denki Co.

MEJ	Micro Electronics, Inc.	MOB	Mal Mobley
MEL	Maryland Electronics Corp.	MOC	Model Rectifier Co.
MEM	Munston Electronic Manufacturing Co.	MOD	Modar Electronics
MEN	Mentor Radio Co.	MOE	Monaco Enterprises, Inc.
MER	Metron Instrument Co.	MOF	Mosely Associates, Inc.
MET	Metrotek Electronics Co.	MOL	Mobilet Corp.
MFT	Milliflect, Inc.	MON	Monitor Electronics
MFX	Morfax, Ltd.	MOO	Moog Industrial Control Corp.
MGC	Magellan Corp.	MOR	Morad Electronics Corp.
MGI	Megapulse, Inc.	MOS	Mosely Electronics Co.
MGN	Magnetic AB (Sweden)	MOT	Motorola Corp.
MGS	Megastar	MOX	Mobile Communications
MGW	Montgomery Ward	MOY	Monsant Co.
MHR	Minneapolis Honeywell Regulator	MPC	Multi-Products Co.
MIA	Missawa	MPD	Microwave Power Devices, Inc.
MIB	Mitsubishi Denki Co. or Mitsubishi Electric	MPH	MPH Industries, Inc.
MIC	Microdot, Inc.	MPI	Microwave Products, Inc.
MID	Microfix Instruments, Ltd.	MPN	Multipoint Network
MIE	Mitre Corp.	MPR	Melpar, Inc.
MIF	Micromega, Divn of Bunker-Ramo Corp.	MRA	Miller RA
MIL	Micro-Linke Corp.	MRC	Midwest Radio Corp.
MIM	Marconi International Marine Co.	MRE	Monicor Electronics
MIN	Midland Intl. Corp.	MRI	Micro Radionics, Inc.
MIQ	Miteq Corp.	MRM	Morrow Radio Manufacturing Co.
MIR	Mirage System	MRN	Mariner
MIS	Mission Engineering Corp.	MRR	Marti
MIT	Minatronics Corp.	MRS	Micro Systems, Inc.
MIV	Microvision	MRT	Marti Electronics
MIW	Microwave Associates, Inc.	MRW	Microwave Resources, Inc.
MIZ	Mitchell Industries, Inc.	MRX	Mitrex
MKY	Mackay Radio-Telegraph Co.	MRZ	Marantz
MLA	Malabs	MSA	Massa Products
MLF	Microlab/FXR, Inc.	MSC	Microwave Service Co.
MLR	R. A. Miller Industries	MSD	Marconi Space and Defense Systems
MMA	Martin Marietta Air Space	MSM	M2 Antenna Systems Inc
MME	Model Engineering and Manufacturing Corp.	MSP	Microwave Speciality Corp.
MML	Micromil Electronics, Ltd.	MSR	Mid-State Radio
MMM	Master Mobile Mounts, Inc.	MSY	Meteric Systems Corp.
MMR	Mobile Marine Radio	MTB	Micro-Now Instruments Co., Inc.
MMS	Matra-Marconi Space	MTC	Micro-Tel Corp.
MMT	Millimeter Wave Technology	MTG	Mei Technology
MNC	Montronics, Inc.	MTH	Martech, Inc.
MNE	Mnemonics Inc.	MTI	Mobile Telesystem, Inc.
MNI	Microwave Network, Inc.	MTL	Maritime Telecommunications Network, Inc.
MNP	Machinostroenie N.P.O.	MTN	Monitron Corp.
MNT	Montec (Divn of E-Systems)	MTP	Military Technology PTY, Ltd.
MOA	Mosely Associates, Inc.	MTR	Meteor, Communications Corp.
		MTS	Mobile Telesystems

MTX Marintek
 MUE Murphy Electronics Division of Rank Corp.
 MUI Multronics, Inc.
 MUL Multi-Elmac Co.
 MUN Muniqueip Co.
 MUP Multiplex Services Corp.
 MUS Multitech Power Systems/Avionics
 MUT Multitone Electronics, Ltd.
 MUX Munston Electronics Manufacturing Corp.
 MUZ Munston Manufacturing & Service Inc.
 MVI M/A-COM Video Systems, Inc.
 MWA Microwave Antenna Designs, Inc.
 MWB Microwave Bypass Systems
 MWC Microwave Control Co.
 MWD Microwave Devices, Inc.
 MWI Microwave Power, Inc.
 MWO Microwave Radio Corp.
 MWS Microwave Sensors
 MWT Marconi Wireless Telegraph Co., Ltd.
 MXI MAXRAD, Inc.
 MXL Maxwell Electronic Corp.
 MXN Maxon Electronics, Inc.
 MXP Max Planck Institute
 MXR Min X Radio
 MZE M Z Enterprises
 NAC National Co.
 NAD Naval Air Dev. Ctr.
 NAH North American Philips
 NAK Nankai Musen Co.
 NAL NALCO
 NAM Naval Ammo Depot
 NAN Nanayo Electric Co.
 NAP Nevada Air Products Co.
 NAR Narda Microwave Corp.
 NAU Nautel
 NAV Naval Avionics
 NAW Naval Air Warfare Ctr. Weapons Div.
 NCF National Center for Atmospheric Research
 NCR National Cash Register of Canada
 NDC Nihon Denki Co.
 NDS Norand Data Systems, Inc.
 NEA NEC America, Inc.
 NEB NEUTECH
 NEC Nemsclarke
 NEI Nielson Electronics Division
 NEJ NEC (Japan)

NEL National Electronics Laboratory
 NER Nera
 NET Newtronics, Inc.
 NEU Neulink, Divn of Celltronics
 NEW Newton Co.
 NEX Nextel, Inc.
 NGT National Gateway Telecom, Inc.
 NIC Northwest Instrument Co.
 NIE Nippon Electronic Company Ltd.
 NIM Nihon Musen Co.
 NIN Nissan
 NIO NICOM
 NIS Nissin Electronics, Inc.
 NIT NITECH, Inc.
 NMT New Mexico Tech
 NMU New Mexico State University
 NOC Northrop Corp.
 NOD Norden Division
 NOE Northeastern Engineering Co.
 NOI Nokia
 NOK Novak Electronics
 NOR Northeast Medal Industries
 NOS Naval Oceans System Center
 NOT Naval Ordnance Test Center - China Lake
 NOV Nova-Tech/Avionics or Nova Tech Inc.
 NPC NAPCO Industries
 NPS Naval Post Graduate School
 NRA Northern Radio Co. or Northern Electronic Co.
 NRB NARCO
 NRC National Aeronautic Corp.
 NRD Norand Data System
 NRE Northern Electric Co., Ltd.
 NRL Naval Research Lab
 NRN China North Industries Corp.
 NSA Northstar Electronics, Inc.
 NSI Nady System, Inc.
 NSL Northern Scientific Laboratory
 NST Northstar Technologies
 NTD New Tronics Division
 NTL Northern Telecommunications, Inc.
 NUC Nucomm
 NUR Nurad, Inc.
 NUS Naval Underwater Systems Center
 NVC Navcom Defense Electronics
 NVE Naval Engineering Center
 NWC Naval Weapons Center
 NYT N.Y. Technical Institute of Cincinnati

OAI	Oklahoma Aerotronics, Inc.	PCM	Pacific Communications
OAQ	OAQ Corp.	PCO	Procom Corp.
OAR	Ocean Applied Research Corp.	PCR	Pacific Crest Corp.
OCT	Octagon	PCS	Proportional Control Systems
ODM	Odom	PEA	Pearce Simpson, Inc.
OEC	Osborne Electronics Corp.	PED	Practical Engineering & Development Corp.
OKA	Oklahoma Electronics Co.	PEG	Peninsula Engineering Corp.
OKI	OKI Denki Co. or	PEI	Pacific Engineering, Inc.
OKI	Electric Industry Company, Ltd.	PER	Perkin Elmer, Inc.
OLS	Olson Radio Corp.	PFE	Professional Electronics
OME	Omera (France)	PFI	Pfitzer, Heinz
OMN	Omnitek	PFR	Perfection
OND	Oneida Electronics	PGE	P.G. Electronics
OOS	Odom Offshore Survey	PHA	Phase IV Systems, Inc.
OPD	Odetics Precision Time Division	PHC	Philco Corporation of Canada, Ltd.
OPE	Opseis	PHD	Phelps Dodge
OPM	Opto-Mechnik	PHI	Philco Corp.
OPS	Opos Electronics	PHL	Philips Gloeilampene Abreiken (Neth) or Philips Broadcast Equipment Corp.
OPT	Optic Electronic Corp.	PHM	Philmore Manufacturing Co.
ORB	Orbit Electronics	PIA	Pinson Associates, Inc.
ORE	Oremco	PIC	P-I-C Communications, Inc.
OSB	Oregon State Board of Forestry	PIE	Piezo, Ltd.
OSC	Orbital Sciences Corp.	PIS	Picattiny Arsenal
OSH	Oregon State Highway Dept.	PKM	P-COM Inc.
OSU	Oklahoma State University	PLC	Plectron Corp.
OTR	Outer Communication Co.	PLE	Plessey Company, Ltd. (UK)
OTX	Omni-Tronix	PLP	Phillips Audio Visual Corp.
OUT	Ourercom Electronics Corp.	PLR	Polestar
OZD	Ozalid Division	PMC	Patterson Manufacturing Company, Inc.
PAA	Pan American Airways	PMR	Pacific Missile Range Co.
PAC	Piper Aircraft Corp. (Electronics Division)	PMT	Pacific Missile Test Center
PAD	Pacific Advanced Engineering, Inc.	PMW	Premier Microwave Corp.
PAE	Park Aire Electronics	PNH	PNH Electronics Co.
PAI	Pacific Aerosystem, Inc.	PNL	Pacific Northwest Labs
PAK	Packard Bell Electronics Corp.	POC	Port-Com
PAL	Palmer, B. Co.	POE	Pointer Electronics
PAN	Panronics Corp.	POL	Polarad Electronics Corp.
PAR	Parsons Electronics	POM	Pomije Electronics Co. or Palomar Instrument Co.
PAT	Patterson H. J.	POV	Port-O-Vox Corp.
PAU	Pauldon	POX	Polytronics Communications or Pro-Line Electronics
PAV	PAVCO	POY	Polytronics Laboratories, Inc.
PAZ	Parzen Research, Inc.	POZ	Pole/Zero Corporation
PBI	Pickard-Burns, Inc.	PRE	Premax Products Division
PBR	Pro Brand International	PRI	Polytronics Research, Inc.
PCC	Pace Communications Corp.	PRL	Polar Research Lab.
PCE	Page Communications Engineers, Inc.		
PCL	PC Electronics		

PRN Parsons, Ralph M. Co.
 PRO Podelin, Inc.
 PRS Prisi Antennas
 PRT Pitchard Brown
 PRX Poxim
 PSC Pramax Systems Corp.
 PSI Pblc Systems, Inc.
 PSL Physical Science Lab
 PST Pwer Systems Technology, Inc.
 PTA Plytechnica
 PTI Ptection Technology, Inc.
 PTL TADS Development Labs, Inc.
 PUL Pulse Engineering, Inc.
 PWI Pacific World Industries
 PYA Pye Corporation of America
 PYC Pye Communications
 PYE Pyle Telecommunications, Ltd. (UK)

QEI QEI Corp.
 QEL Quest Electronics
 QEN Quadrant Engineering, Inc.
 QSC Quanta System Corp.
 QUA Qualimetrics Corp.
 QUC QALCOMM
 QUE QUE Enterprises, Inc.
 QUI Quintron Corp.
 QUT QUALI-TRON

RAA Rad-O-Lite
 RAB RF Sound, Ltd.
 RAC Racal Communications, Ltd.
 RAD Radiation, Inc.
 RAE Racal Electronics, Ltd.
 RAF R&D Assoc. Electronics Navigation
 Industries, Inc.
 RAG Radian Corp.
 RAI Racal Instruments, Ltd.
 RAJ Ray Jefferson Co.
 RAN Rantec Corp.
 RAP Radio Plane Co.
 RAS Radio Shack
 RAT Ratelco, Inc.
 RAU Raulond-Borge Corp.
 RAY Raytheon Co. or Raytheon
 Manufacturing Co.
 RCA Radio Corporation of America
 RCE Radio Communications Equipment
 Engineering, Ltd. (Canada)
 RCI Richmond Communications, Inc.

RCM RC Manufacturing Co.
 RCN Racon, Inc.
 RCP S&O RC Products
 RCV RCA Victor Company, Ltd.
 RDA Radair, Inc.
 RDB Radio Specialists Co.
 RDC Rome Air Development Center
 RDM Radio Marine Corp.
 RDN Raydyne, Inc.
 RDS Radio Specialty Co.
 RDW Radio Waves Inc.
 REA Realtons Electronics, Inc.
 REB Remcon
 REC Reach Electronics Corp.
 RED Redifon, Ltd.
 REE Reaction Instruments, Inc.
 REF Republic Electronics Films, Inc.
 REG Ross Engineering
 REI Regency Electronics, Inc.
 REL Radio Electronics Laboratories
 REM Remler Company, Ltd.
 REN Radio Engineering Laboratories
 REO Remtron
 REP Repco, Inc. or R.G.P. Co.
 RES Resdel Engineering Corp.
 RET Resonant Electronics
 REU Ridge Electronics Corp.
 REV Reeves Instrument Corp.
 REX Rex Bassett, Inc.
 REZ Relco
 RFA RF Solutions
 RFC RF Communications Associates, Inc.
 RFE Rafael
 RFH RF Harris Electronics
 RFI Radio Frequency Communications, Inc.
 RFT R. F. Technology
 RGC Ranger Communications
 RHG RHG Electronics Laboratories
 RHU Radio Holland Group
 RIA Reaction Institute, Inc.
 RIE Rockwell International Electronics
 RII Radio Industries, Inc.
 RIT Ritcon, Inc.
 RIZ Rel, Inc.
 RJG R. J. Gumm Co.
 RLC Realistic Co.
 RMC Relm Communications, Inc.
 RMI Racal Decca Marine, Inc.
 RML Research in Motion, Ltd.

RMT	Remotec, Inc.	SAT	Sarkes Tarzian, Inc.
RNN	Rannoch Corporation	SAV	Space Avionics, Inc.
RNS	Radionics	SBA	Sideband Associates, Inc.
ROB	Robinson Electronics	SBE	Seaboard Electronics
ROC	Recon Optical, Inc.	SBR	Santa Barbara Research Ctr.
ROD	Rodelco	SBT	Sideband Technology, Inc.
ROE	Robinson Engineering Co.	SCA	Scala Radio Corp.
ROL	Royal Exec	SCC	Secode Corp.
ROM	Radio Specialties Mfg. Co.	SCG	Satcon GMBH
ROS	Rohde Schwarz	SCH	Schuttig Atlantic
ROT	Rothenbuhler Engineering	SCI	Scientific Atlanta Co.
ROW	Rowe Industries	SCM	SCM Melabs, Inc.
ROX	Roxy Ofuna Electronics	SCN	Scientific Communications
ROY	Royal Electronics Corp.	SCE	Scottcare
RQM	Racon, Inc. Quality Microwave	SCO	Scope, Inc.
RRC	Radio Receptor Co.	SCR	Steinbrecher Corporation
RRH	Richard R. Hayes	SCT	Science Applications International Technology, Inc.
RRI	Radio Research Instrument Co.	SCX	Scintrex, Ltd.
RSE	RS Electronics Corp.	SCY	Specialized Control Systems
RSI	Radio Systems, Inc.	SDC	Space Data Corp.
RSL	Resalab, Inc.	SDI	Safety Devices, Inc.
RSM	Radio Specialty Manufacturing	SDX	Serdex Corp.
RSS	RS Systems, Inc.	SEA	Sears Roebuck Co.
RST	Robertson-Shipmate	SEB	Sea Tel, Inc.
RTK	REFTEK	SEC	Struthers Electronics Corp.
RTL	Radio Tel, Ltd.	SEE	San Endiron General
RTN	Randtron Systems	SEG	Solartron Electronics Group, Ltd.
RTR	Ritron, Inc.	SEI	Seiscor Manufacturing Co.
RUS	Rust Corp of America	SEK	Seiki Electronics, Inc.
RWC	Rockwell, Collins	SEL	Selenia S.P.A. (Italy)
RYA	Ryan Aeronautical Co.	SEM	Seatron, Inc.
RYC	Railway Communication, Inc.	SEN	Sennheiser Electronic Corp.
RYN	Raytron Ltd.	SEO	SEMCO
RYU	Ryukyu Tsushinki Kogyo Co.	SEP	Seaphone, Inc.
SAA	Safe Environmental Engineering	SER	Servo Corp. of America
SAB	SAAB	SES	Seismograph Service Corp.
SAC	Sabre Communications Corp.	SET	Setchell Carlson, Inc.
SAD	Sandia Corp.	SEV	Seavey Engineering Corp.
SAF	Safe Link Corp.	SEX	Sentrax Perimeter Protection System
SAG	Sage Laboratories	SFC	Safecom (Radionics)
SAI	Springer Aircraft Radio Corp.	SFI	Stanford Telecommunications, Inc.
SAL	Salco Manufacturing Co.	SGC	Sperry Gyroscope Company of Canada, Ltd.
SAM	Sampson Co.	SGE	Strong Electronics
SAN	Sanders Associates, Inc.	SGK	Singer Kearfott Co.
SAP	SA Philips Pty., Ltd.	SGR	General Precision Laboratory, Inc.
SAQ	Sexant Anionique	SHA	Shakespeare
SAR	Stoddard Aircraft Radio Co.		
SAS	Sigmas Antenna Systems		

SHD Shadow Technology
 SHI Shiba Electric Co.
 SHK Shank Communication Co.
 SHP Shart Corp.
 SHU Shure Brothers, Inc.
 SIA Stephens Engineering Associates, Inc.
 SIC SRI International
 SID Sierra Digital
 SIE Sierra Electronic Division of Philco
 SIG Signal Communications
 SIH Siemens-Halske
 SIL Spilsbury & Tindall
 SIM Simpson Electronics
 SIN Spectrum Communications, Inc.
 SIP Sippian Ocean Systems
 SIR Sitra
 SIS Sercel Industries Corp.
 SIT SITCO
 SKD Skydata, Inc.
 SKL Spencer Kennedy Laboratories
 SKM Skipper Marine Electronic
 SKN Skanti
 SKV Skyvision
 SKX Skyphone Division
 SKY Skycrafters, Inc.
 SLI Scanwell Laboratories, Inc.
 SLL Shell Development Co.
 SLM Spacelabs Medical
 SLR Sinclair Radio Laboratories
 SLT Satellite Transmission Systems, Inc.
 SMC Southern Marine Corporation
 SMD South Midlands Communications, Ltd.
 SME Smithroot Electronics
 SMG Symbol Technology, Inc.
 SMI Smiths Industries, Inc.
 SML Space Microwave Lab.
 SMP Simoco Pacific PTY Ltd.
 SMO Sierra Misco
 SMR Southern Marine Research, Inc.
 SMT Samson Technologies Corp.
 SMW Southern California Microwave
 SNC Sierra Nevada Corp.
 SNE Senses International
 SNF Sarnoff David Research Center
 SNI Sea Marine International
 SNK Sonik Technologies, Inc.
 SNL Sentinel
 SNS Senstar Corp.
 SNT Santec

SOA Southern Avionics
 SOE Sonex, Inc.
 SOI Solid State Technology
 SOL Soladyne International, Inc.
 SON Sonar Radio Corp.
 SOS Space Ordinance Systems
 SOU Sound-Craft Systems, Inc.
 SOY Sony
 SOZ Southcom International, Inc.
 SPA Spar Aerospace, Ltd.
 SPB System Planning Co.
 SPC Space Technical Laboratories
 SPD Sperry Corp.
 SPE Space Electronics
 SPF SPC Technology, Divn. of Remier Industries
 SPG Space General
 SPI Specific Products, Inc.
 SPK Spike Technologies, Inc.
 SPL Spectrolab, Inc.
 SPM Spectra Physics Co.
 SPN Sparton Electronics
 SPP Simmonds Precision Products, Inc.
 SPQ Spears Associates
 SPR Sperry Corp. or Servo Corporation of America
 SPS Spectra-Physics
 SPT Sparta Electronic Corp.
 SPW Sperry Piedmont Co.
 SPX Specifics Co.
 SPY Sperry Gyroscope Company, Inc.
 SPZ Sperry Marine Systems
 SQA Square D Co.
 SQL Spacequest LTD
 SQU Squires Sanders, Inc.
 SRA Smythe Research Associates
 SRC Sierra Research Corp.
 SRD Standard Radio and Telefon ABITT
 SRE Sprengnether Equipment Co.
 SRI Skyway Radio, Inc.
 SRL Scott EH Radio Laboratories, Inc.
 SRM Sierra Monolithics, Inc.
 SRR Sperry Flight Systems
 SRS Scientific Radio Systems, Inc.
 SRT SR Telecom, Inc.
 SRU SATEL Radio USA
 SRV Serv-Air, Inc.
 SSC States Steamship Co.
 SSF Shared Spectrum Company

SSG	Samsung Electronics, Ltd.	SYN	Synergetics
SSI	Surface System, Inc.	SYR	Systems Research Laboratories, Inc.
SSN	Sensis Corp.	SYS	Systron Donner Corp (Demornay Bonardi)
SSR	Sensor Systems	SYX	Syndetix
SSY	Stellar System		
STA	Standard Electronics	TAC	Technical Appliance Corp.
STB	Standard Communications	TAD	TAD-American Corp.
STC	Standard Telephones-Cables, Ltd.	TAE	Tait Electronics, Ltd.
STD	Standard Elektrik Lorenz	TAI	Taiyo Musen Co.
STE	Stephenson	TAM	Tamer Electronics, Inc.
STF	Stanley Electronics Co.	TAN	Technical Associates of New Orleans
STG	Stoner-Goral Communications Co.	TAO	Taco, Inc.
STH	Sintra-Thomson	TAP	Technology Applications
STI	Stailes, Inc. or Star Lifeline, Ltd.	TAS	Tasker or Tasker Industries
STJ	Sanford Telecommunications Institute, Inc.	TAT	Thrane & Thrane
STL	Sterling Precision Corp.	TAY	Taylor Electrical Instrument, Ltd.
STM	ST Microwave	TBL	Trimble Navigation
STN	Stoner Electronics	TBN	Tayburn
STO	Storno Radio Co.	TCC	Telcom Communications
STP	Serve-Tek Products, Inc.	TCD	Techdyn Systems Corp.
STQ	Stanford Research Institute	TCE	Telecommunications Corp.
STR	Stromberg Carlson Products Co.	TCH	Techcomm
STS	Standard Electrica S.A.	TCI	Tel Com Industries
STU	Strand Engineering Co.	TCL	Trio Communications, Ltd.
STV	ST Research Corp.	TCM	TCOM Industries, Inc.
STW	Stewart Warner Corporation of Canada, Ltd.	TCN	Technos International Corp.
STX	SI-Tex Marine Electronics, Inc.	TCO	Temco Aerosystems
SUC	Sun Chemical Corp.	TCP	Tecom
SUM	Summers & Mills	TCQ	Techtest Lmt.
SUN	Sunair Electronics, Inc.	TCT	Transcidtronic
SUR	Sur-Tec, Inc.	TDA	Tridea Electric Corp.
SUT	Sutron Co.	TDC	Teledyne T/M Co.
SVI	Savi-Technology, Inc.	TDE	Teledyne Ryan Electronics
SVR	Svenska Radio	TDI	TeleDesign
SWA	Swan Electronic Corp.	TDL	Tidelands
SWI	Swintek Cordless Microphone Co.	TDS	TDS Electronics Company, Ltd.
SWM	Southwest Microwave Co., Inc.	TDT	Teludisc, Inc.
SWN	Southwestern	TDY	Tele-Dynamics
SWR	Southwest Research Institute	TEA	Tek-Aid, Inc.
SYA	Syracuse Research Corp.	TEB	Telco
SYC	Syson Corporation	TEC	Telviso Electronics
SYD	Systems Dynamics	TED	Teldex
SYE	Systems Engineering & Management Corporation	TEE	Teaberry Electronics Corp.
SYL	Sylvania Electronics Defense Laboratory or Sylvania Electronics Products	TEG	Telautograph Corp.
SYM	Symetrics Engineering Corp.	TEH	Telechrome
		TEI	Texas Instrument, Inc.
		TEJ	Telephone Engineering Corp.
		TEK	Te-Ka-De Co.

TEL Telrex Laboratories
 TEM Telemet Co.
 TEN Teletronix Engineering Co.
 TEO Telemotive
 TEP Tepco Corp.
 TEQ Tenna Corp.
 TER Terra-Com
 TES Technisonic Industries
 TEX Textran Division
 TFC Technology for Communications,
 International
 TFD Telludift
 TFT Time & Frequency Tech., Inc.
 THA Thales ATM
 THC Thomson CSF
 THE Thorn EMI Electronics, Inc.
 THI Thiokol Chemical Corp.
 THL Technical Electronics Co.
 THN Thorn Microwave Devices
 THO Thomas Mold-Die Co.
 THY Technology Service Corp.
 TIA Television Technology Corp.
 TIE Tel Instrument Electronics
 TII Teledyne Industries, Inc.
 TIL Transcript International
 TIM Time Domain Corporation
 TIN Telinstrument Co.
 TIS Tadiran Israel Industries, Ltd.
 TIV Trivec-Avent
 TKA Tokai Communication Corp.
 TKC Trio-Kenwood Communications
 TKK Tekk, Inc.
 TKL Teklogix, Inc.
 TKM TEK Mark Company
 TKS Tokyo Keiki Co.
 TLA Telonica Corp.
 TLC TRT Groupe
 TLE Telemus Electronics Systems, Inc.
 TLF Telefunken Gmbh.
 TLI Teletronics International Inc
 TLK Telkoor

 TLM Telemobile, Inc.
 TLP Telephonic Corp.
 TLR Telline Radio
 TLS Tele-Signal Corp.
 TLX Telex Co.
 TMC Technical Materiel Corp.

TMD TMC Systems & Power Corp. or
 Telemotive Division of Dynascan
 TME Temec Corp.
 TML TMC, Ltd.
 TMP TOMOCO Electronics PTY, Ltd.
 TMR Terma Elektronik
 TNS Telonics
 TOA Townsend Associates
 TOE TOMCO Electronics PTY, Ltd.
 TOH Thomson-Houston (France)
 TOK Tokyo Shibaura Electronics Co.
 TOM Tomcor
 TOP Topp Manufacturing Co.
 TOS Toshiba Co.
 TOY Toyocon
 TPI TEK Products, Inc.
 TPL Technology Proprietary, Ltd.
 TRA Transco Products, Inc.
 TRB Trans World Communications, Inc.
 TRC Technical Radio Corp.
 TRD Traid Corp.
 TRE Transmitter Equipment Manufacturing
 Co.
 TRF TRF Company
 TRI Tracor, Inc.
 TRL Trilectric Co.
 TRM Tram/Diamond Corp.
 TRN Tran-Com
 TRO Telurometer Corp.
 TRP Tri-Com, Inc.
 TRQ Transformation Techniques, Inc.
 TRR Transworld
 TRS Tran-Crypt
 TRT Trans Texas
 TRU Truetime
 TRV Jefferson Travis
 TRW TRW Electronics
 TRY Trylon, Inc.
 TRZ Travelers Information Services, Inc.
 TSA Technical Systems Associates
 TSB Transcience
 TSC Teledyne Systems Co.
 TSD Technical Systems Division
 TSE Technical Science
 TSI Tactical Systems, Inc.
 TSS Telesystems, Inc.
 TSY Telemetry Systems, Inc.
 TTC Titian Corp.

TTI	Television Transmission, Inc.	VEX	Vertex Communications Corp.
TTK	Tron-Tek, Inc.	VFR	Valley Forge Research Center
TTN	Titan Severe Environment Systems	VHF	VHF Engineering Co.
TTQ	Transformation Techniques, Inc.	VIA	Victoreen Instrument Co.
TTS	Telescience Transmission System, Inc.	VIC	Victor RF-Microwave Co.
TTT	Tactical Technology, Inc.	VID	Vidor Scientific, Inc.
TTX	Teltrol Corp.	VIF	Verifone, Inc.
TUL	Tull Aviation Corp.	VIL	Vitel
TUR	Turner Aircraft Radio, Inc.	VIN	Vicon Industries, Inc.
TXA	Textron Defense Systems	VIS	Visual Manufacturing Division
TXC	Telxon Corporation	VIT	Vitro Electronics
TXS	Texscan Instruments	VIX	Vista Manufacturing Co.
TYC	Tycho-Tech	VIZ	VIZ Corp.
UAF	USN Avionics Facility	VMI	Video Methods, Inc.
UDE	University of Denver	VNG	Vanguard Med Products Co.
UDN	Uniden	VOC	Vocaline Company of America
UEC	U.S. Army Electronics Command	VOU	Vought Corp.
UED	United Electro Dynamics, Inc.	VRD	Varda Company
UFI	Uniten/Force, Inc.	VRO	Varo, Inc.
UIL	University of Illinois	VSC	Ventana Sciences, Inc.
UMI	University of Miami	VSI	Viable Systems, Inc.
UNA	Universal Navigation Corporation	VST	Viasat Technologies Co.
UNC	United States Navguide Corp.	VTC	Vectran Corp.
UNI	Univac Corp.	VUA	Vector Division of United Aircraft
UNM	Unimetrics, Inc.	WAA	Washington Aluminum Co.
UNN	Unicom	WAB	Westinghouse Air Brake Co.
UNS	Unisys Corp.	WAD	Waddell Dynamics
UNT	United Telecontrol	WAE	Waveband Electronics
USE	Use Corporation	WAG	Waveguide
USL	United Scientific Laboratory	WAL	Walco Electronic Co.
USM	U.S. Metal Products Co.	WAS	Washington State Patrol
USN	Universal Space Network Inc.	WAT	Washington Technological Assn., Inc
UTC	Utilicom, Inc.	WAV	Wavetek
UTE	Unitec	WBA	West Bend Autotronics, Inc.
UTI	Utica Communications	WBI	Wyoming Biotelemetry, Inc.
UTL	UTL Corp.	WBL	Weibel Scientific, Inc.
VAI	Vaisala	WBS	Wide Band Systems Inc.
VAL	Valcom, Ltd.	WCI	Webcor, Inc.
VAN	Van Norman Industries, Inc.	WDC	Westin Data Comms
VAR	Varian Associates	WEB	Webster Manufacturing Co.
VAT	Viatec	WEC	Western Electric Company, Inc.
VDC	Video Consultants	WED	Winston Electronics Division
VEC	Vector Manufacture Co.	WEI	Ward Electronic Industries
VEG	Vega Electronics Corp.	WEL	Well Sentry, Inc.
VEN	Ventron Electronics Corp.	WEM	Wems, Inc.
VEP	Visual Electronics Corp.	WES	Westinghouse Electric Co.
VER	Versa-Count	WET	Weight-Tronics

WEU Western Union Telegraph Co. or
Western Union
WGC Webster Green Co.
WGT Wandel and Golterman
WHD Windermere HDS
WHE Whelen
WHI White J.L. Co.
WHM Whistler Marine, Inc.
WHT Whittaker Corp.
WIC Wicks Industries
WIG Wilcox Gay Corp.
WIH Wightman Electronics, Inc.
WIK Wilkinson Electronics, Inc.
WIL Wilcox Electric Corp.
WIN Wind Data
WIT Winnet, Inc.
WJO Watkins Johnson Co.
WLC Wilson Electronic Corp.
WMC Weather Measure Corp.
WMI Wescom Microwave, Inc.
WMN Wildlife Materials, Inc.
WMX Western Multiplex Corporation
WOD Wood and Douglas
WOE World Engines
WOL World Radio, Ltd.

WOO Wood-IVY Systems, Inc.
WOR Workshop Associates
WRC Western Radio Communications Corp.
WRL World Radio Laboratories
WSD W.S. Deans Co.
WSI Wireless Sound, Inc.
WSM Western Space and Marine
WST Westrex Corp. (Division Litton Systems)
WTB West Bend
WTC Wind Turbine Co.
WTI Wireless Technology, Inc.
WUL Wulfsberg Electronics
WVT Wavetronics, Inc.
WYM Wyman Research, Inc.

XRX Xerox Corp., Electro Optical Systems
XTR Xetron Corp.
YDI Yarnell Data, Inc.
YEA Yaesu

ZEL Zellweger Telecommunications
ZEN Zenith Radio Corp.
ZEP Zephyrus
ZET Zeta Laboratories