

## Annex G

### Abbreviations

#### G.1 AGENCY, BUREAU, AND OTHER ORGANIZATIONAL ABBREVIATIONS

This section 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	APHIS
	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 US&P	AC
	United States Army, Alaska	AK
	Army Spectrum Management Office	AR
	Corps of Engineers	CE
	Military District of Washington	DW
	Army Spectrum (Fort Meade)	FM
	AFC, State of Arizona	HU
	U.S. Army (State of Hawaii)	HW
	Satellite/Communications	SAT
	U.S. Army Pacific (does not include Hawaii)	PA
	AFC, White Sands Missile Range	WS
Administrative Office of the United States Courts		AUSC
Commerce, Department of		C
	Bureau of Industry and Security	BIS
	Census Bureau	CEN
	Oceanic and Atmospheric Research	OAR
	International Trade Administration	ITA
	Institute for Telecommunications Science	ITS

Agency	Bureau	Abbreviation
	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
	Office of Marine and Aviation Operations	OMAO
	NOAA Homeland Security Program Office	NHSP
	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
Court Services and Offender Supervision		CSOS
Education, Department of		ED
	COOP/COG Activities	COOP
	Office of the Inspector General	OIG
	Office of Protective Services	OPS
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	CH

Agency	Bureau	Abbreviation
	Argonne National Lab, West Brookhaven Group Brookhaven National Lab 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	HQ

Agency	Bureau	Abbreviation
	Assurance 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 Portsmouth Area Office (Plant)	OR

Agency	Bureau	Abbreviation
	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
Equal Employment Opportunity Commission		EEOC
Environmental Protection Agency		EPA
	Office of the Administrator/Deputy Administrator	AO
	Office of Administration and Resource Management	OARM
	Office of Air and Radiation	OAR

Agency	Bureau	Abbreviation
	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 Housing Finance Agency		FHFA
	Office of Inspector General	OIG
Federal Reserve System		FRS
Federal Trade Commission		FTC
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
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
	Centers for Medicare and Medicaid	CMS
	Food and Drug Administration	FDA
	Health Care Financing Administration	HCFA
	Health Resources and Services Administration	HRSA
	Indian Health Services	IHS
	National Institutes of Health	NIH

Agency	Bureau	Abbreviation
	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
	Federal Protective Service	FPS
	Information Analysis and Infrastructure Protection Directorate	IAIP
	Integrated Wireless Network	IWN
	National Coordination Center	NCC
	Office of Emergency Communications	OEC
	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
	Bureau of Ocean Energy Management	BOEM
	Bureau of Safety and Environmental Enforcement	BSEE
	Geological Survey	G
	Geological Survey - Administrative	GA
	Geological Survey - Biological Resources Division	GB
	Geological Survey - Geologic Division Seismic	GG
	Geological Survey - Geologic Division Earthquake	GGE
	Geological Survey - Geologic Division Volcano	GGV
	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
	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

Agency	Bureau	Abbreviation
	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
	Office of the Secretary	O
	Aircraft Management Division	OAS
	Office of Surface Mining	OSM
	National Park Service	P
	National Park Service - Alaska Region	PAK
	National Park Service - Intermountain Region	PIM
	National Park Service - Northeast Region	PNE
	National Park Service - Midwest Region	PMW
	National Park Service - National Capital Field Area	PNC
	National Park Service - Pacific West Region	PPW
	National Park Service - Southeast Region	PSE
	National Park Service – United States Park Police	PPP
	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
	GUM, HI, ID, MDW, 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
	CA, NV	S8
	Not elsewhere classified	S9
	Trust Territory of the Pacific Islands, Government of the (including Government of the Northern Marianas)	T
International Trade Commission		ITC
Justice, Department of		J
	Alcohol, Tobacco, Firearms and Explosives	A
	Bureau of Prisons	BP
	Drug Enforcement Administration	D
	Federal Bureau of Investigation	FB
	Integrated Wireless Network	IWN
	Justice Management Division	JMD
	Justice-Wide (including Offices, Boards, and Divisions of the Department)	JW



<b>Agency</b>	<b>Bureau</b>	<b>Abbreviation</b>
	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
	Armstrong Flight Research Center	DFRC
	Glenn Research Center	GRC
	Goddard Space Flight Center	GSFC
	NASA Headquarters	HQS
	Jet Propulsion Laboratory	JPL
	Johnson Space Center	JSC
	Kennedy Space Center	KSC
	Langley Research Center	LARC
	Marshall Space Flight Center	MSFC
	Stennis Space Center	SSC
	Wallops Flight Facility	WFF
	White Sands Test Facility	WSTF
National Archives and Records Administration		NARA
National Endowment for the Arts		NEA
National Gallery of Art		NGAL
National Geospatial-Intelligence Agency		NGA
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 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
Railroad Retirement Board		RRB
Securities and Exchange Commission		SEC
Senate, U.S.		SEN
Small Business Administration		SBA
	Office of the Inspector General	G
Smithsonian Institution		SI
Social Security Administration		SSA
State, Department of		S
	Bureau of Economic and Business Affairs	EB
	Bureau of Information Resource Management	IRM
	Office of Foreign Missions	OFM
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
	Federal Motor Carrier Safety Administration	FMC
	Federal Railroad Administration	R
	Federal Transit Administration	FTA
	Maritime Administration	MAR
	National Highway Traffic Safety Administration	T
	National Transportation Safety Board	NB
	Office of the Secretary	OS
	Pipeline and Hazardous Material Safety Administration	PHMS
	Railroad Technology Test Center	RATC
	Research and Innovative Technology Administration	RITA
	Research and Special Programs Administration	RSPA
	St. Lawrence Seaway Development Corporation	SL
Treasury, Department of the		T
	Departmental Offices	DO
	Bureau of Engraving and Printing (BEP)	BEP
	Bureau of Fiscal Service	FS
	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
	Troubled Asset Relief Program	TARP
	Alcohol and Tobacco Tax and Trade Bureau	TTB
U.S. Agency for Global Media		USGM
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
	VA Central Office	VACO
	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	NG
NON-GOVERNMENT RECORDS (70/80/90 GHz)	NGR
REPUBLIC OF PALAU	RP
REPUBLIC OF THE MARSHALL ISLANDS	RMI

## G.2 GEOGRAPHICAL ABBREVIATIONS

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

### G.2.1 U.S. (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 U.S. Territories and Possessions

#### *Caribbean Area*

-	Navassa Island
PR	Commonwealth of 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) Commonwealth of Northern Mariana Islands (Formerly Ladrone 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	American Samoa (Aunuu, Manua Group [or Islands, i.e., Ofu, Olosega, Tau], Rose Island, Swains Island, Tutuila)
WAK	Wake Island

### G.2.3 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, Cambodia, Indonesia, Laos, Malaysia, Myanmar, 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 Section 9.8.2, paragraph 21.b

### G.2.4 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)
BAH	Bahamas (Commonwealth of the)
BDI	Burundi (Republic of)
BEL	Belgium
BEN	Benin (Republic of)
BER	Bermuda
BFA	Burkina Faso
BGD	Bangladesh (People's Republic of)
BGR	Bulgaria
BHR	Bahrain (State of)
BIH	Bosnia & Herzegovina (Republic of)
BIO	British Indian Ocean Territory
BLR	Belarus (Republic of)
BLZ	Belize
BOL	Bolivia (Republic of)
BOT	Botswana (Republic of)
BRB	Barbados
BRU	Brunei Darussalam
BTN	Bhutan (Kingdom of)
CAF	Central African Republic
CAN	Canada
CAR	Caroline Islands

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)
COD	Democratic Republic of the Congo	GRC	Greece
COG	Congo (Republic of the)	GRD	Grenada
COM	Comoros (Islamic Federal Republic of the)	GRL	Greenland
CPV	Cape Verde (Republic of)	GTM	Guatemala (Republic of)
CRO	Crozet Archipelago	GUF	Guiana (French Department of)
CTI	Cote d'Ivoire (Republic of)	GUI	Guinea (Republic of)
CTR	Costa Rica	GUM	Guam
CUB	Cuba	GUY	Guyana
CVA	Vatican City State		
CYM	Cayman Islands		
CYP	Cyprus (Republic of)		
CZE	Czech Republic		
D	Germany (Federal Republic of)	HKG	Hong Kong
DGA	Diego Garcia	HND	Honduras (Republic of)
DJI	Djibouti (Republic of)	HNG	Hungary (Republic of)
DMA	Dominica (Commonwealth of)	HRV	Croatia (Republic of)
DNK	Denmark	HTI	Haiti (Republic of)
DOM	Dominican Republic	HWA	Hawaii (not for use in GMF; for ITU use only)
E	Spain	I	Italy
EGY	Egypt (Arab Republic of)	ICO	Cocos Keeling Islands
EQA	Ecuador	IND	India (Republic of)
ERI	Eritrea	INS	Indonesia (Republic of)
EST	Estonia (Republic of)	IRL	Ireland
ETH	Ethiopia	IRN	Iran (Islamic Republic of)
		IRQ	Iraq (Republic of)
		ISL	Iceland
		ISR	Israel (State of)
F	France	J	Japan (includes Iwo Jima, Marcus Island, Ryu Kyu Islands)
FJI	Fiji (Republic of)	JMC	Jamaica
FLK	Falkland Islands (Malvinas)	JON	Johnston Island
FIN	Finland	JOR	Jordan (Hashemite Kingdom of)
FRO	Faroe Islands		
FSM	Micronesia (Federated States of) (Kapingamarangi, Kosrae, Lamotrek, Namonuito, Nukuoro, Oroluk, Pohnpei, Truk, Ulithi, Woleai, Yap)	KAZ	Kazakhstan (Republic of)
		KEN	Kenya (Republic of)
		KER	Kerguelen Islands
G	United Kingdom of Great Britain and Northern Ireland	KGZ	Kyrgyz Republic
GAB	Gabonese Republic	KIR	Kiribati (Republic of)
		KNA	Saint Kitts and Nevis (Federation of)
		KOR	Korea (Republic of)
KRE	Democratic People's Republic of Korea	LBN	Lebanon
KWT	Kuwait (State of)	LBR	Liberia (Republic of)
		LBY	Libya (Socialist People's Libyan Arab Jamahiriya)
LAO	Lao People's Democratic Republic		

LCA	Saint Lucia	PAQ	Easter Island (Chile)
LIE	Liechtenstein (Principality of)	PHL	Philippines (Republic of the)
LSO	Lesotho (Kingdom of)	PHX	Phoenix Islands
LTU	Lithuania (Republic of)	PLM	Palmyra Island (some 50 islands make up the Atoll of Palmyra)
LUX	Luxembourg	PLW	Palau (Republic of)
LVA	Latvia (Republic of)	PNG	Papua New Guinea
MAC	Macao	PNR	Panama (Republic of)
MAU	Mauritius (Republic of)	POL	Poland (Republic of)
MCO	Monaco (Principality of)	POR	Portugal
MDA	Moldova (Republic of)	PRG	Paraguay (Republic of)
MDG	Madagascar (Democratic Republic of)	PRU	Peru
MDR	Madeira	PTC	Pitcairn Island
MDW	Midway Islands	PTR	Puerto Rico (including Culebra, Mona, and Vieques) (not for use in GMF; for ITU use only)
MEX	Mexico		
MHL	Marshall Islands (Republic of the) (Ailinglapalap, Arno, Ebeye, Enewetak, Jaluit, Kwajalein, Majuro, Mili, Roi-Namur, Rongelap)	QAT	Qatar (State of)
MKD	Macedonia (Republic of) (The Former Yugoslav Republic of Macedonia)	REU	Reunion (French Department of)
MLA	Malaysia	ROD	Rodriguez
MLD	Maldives (Republic of)	ROU	Romania
MLI	Mali (Republic of)	RUS	Russian Federation
MLT	Malta	RRW	Rwandese Republic
MMR	Myanmar	S	Sweden
MNE	Montenegro	SCN	Saint Christopher and Nevis
MNG	Mongolian People's Republic	SDN	Sudan (Republic of the)
MOZ	Mozambique (Republic of)	SEN	Senegal (Republic of)
MRA	Mariana Islands (except Guam)	SEY	Seychelles (Republic of)
MRC	Morocco (Kingdom of)	SHN	Saint Helena
MRN	Marion Island	SLM	Solomon Islands
MRT	Martinique (French Department of)	SLV	El Salvador (Republic of)
MSR	Montserrat	SMA	American Samoa
MTN	Mauritania (Islamic Republic of)	SMO	Western Samoa (Independent State of)
MWI	Malawi	SMR	San Marino (Republic of)
MYT	Mayotte Island	SNG	Singapore (Republic of)
NCG	Nicaragua	SOM	Somali Democratic Republic
NCL	New Caledonia	SPM	Saint Pierre and Miquelon (French Department of)
NFK	Norfolk Island	SRB	Serbia
NGR	Niger (Republic of the)	STP	Sao Tome and Principe (Democratic Republic of)
NIG	Nigeria (Federal Republic of)	SUI	Switzerland (Confederation of)
NIU	Niue Island	SUR	Suriname (Republic of)
NLD	Netherlands (Kingdom of)	SVK	Slovak Republic
NMB	Namibia (Republic of)	SVN	Slovenia (Republic of)
NOR	Norway	SWN	Swan Islands
NPL	Nepal	SWZ	Swaziland (Kingdom of)
NRU	Nauru (Republic of)	SYR	Syrian Arab Republic
NZL	New Zealand		
OCE	French Polynesia	TCA	Turks and Caicos Islands
OMA	Oman (Sultanate of)	TCD	Chad (Republic of)
PAK	Pakistan (Islamic Republic of)	TGO	Togolese Republic
		THA	Thailand

TKL	Tokelau Islands
TJK	Tajikistan (Republic of)
TKM	Turkmenistan
TLS	Timor-Leste (Democratic Republic of)
TON	Tonga (Kingdom of)
TRC	Tristan da Cunha
TRD	Trinidad and Tobago
TUN	Tunisia
TUR	Turkey
TUV	Tuvalu
TZA	Tanzania (United Republic of)
UAE	United Arab Emirates
UGA	Uganda (Republic of)
UKR	Ukraine
URG	Uruguay (Eastern Republic of)
USA	The 48 contiguous States of the United States of America and the District of Columbia (excludes the States of Alaska and Hawaii)
UZB	Uzbekistan (Republic of)
VCT	St. Vincent and the Grenadines
VEN	Venezuela (Republic of)
VIR	United States Virgin Islands (St. Croix, St. John, St. Thomas) (not for use in GMF; for ITU use only)
VRG	British Virgin Islands
VTN	Vietnam (Socialist Republic of)
VUT	Vanuatu (Republic of)
WAK	Wake Island
WAL	Wallis and Futuna Islands
YEM	Yemen (Republic of)
ZMB	Zambia (Republic of)
ZWE	Zimbabwe (Republic of)

### **G.3 AREAS, DIVISIONS, AND DISTRICTS WITHIN THE CONTERMINOUS UNITED STATES**

This section of Annex G contains descriptions and/or maps of certain areas, divisions and districts within the Conterminous U.S., which appear in the GMF. (The FEMA & U.S. Coast Guard maps are an exception as they show overseas areas.)

#### **G.3.1 Corps of Engineers Divisions and Districts (no description-see Figure 1)**

#### **G.3.2 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.

#### **G.3.3 U.S. Coast Guard Areas and Districts (see Figure 3)**

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

Pacific Area 11th, 13<sup>th</sup>, 14<sup>th</sup> 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; the Panama Canal Zone; 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) and the Virgin Islands (St. Croix, St. John, St. Thomas), District 7 includes the islands of Navassa Island; the U.S. Naval Reservations in the islands of the West Indies and on the north coast of South America; and the ocean areas that are encompassed by a line bearing 122 degrees True from coastal end of the Fifth and Seventh Coast Guard District land boundary of the National Maritime Search and Rescue Region; thence along the eastern and the offshore boundary between the Seventh and Eighth Coast Guard Districts that is defined as a line that extends 199 degrees True from the coastal end of the Seventh and Eighth Coast Guard District land boundary; thence along this line to the coast..

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 The Fourteenth Coast Guard District, with District office in Honolulu, Hawaii, is comprised of: the State of Hawaii, the Pacific island possessions of the U.S. south of latitude 40 degrees North and west of a line that runs from 40 degrees North, 150 degrees West through latitude 5 degrees South, 110 degrees West; the ocean area west and south of a line that runs from position 51 degrees North, 158 degrees East to position 43 degrees North, 165 degrees East; thence due south to latitude 40 degrees North; thence due east to longitude 150 degrees West; then southeasterly through latitude 5 degrees South, longitude 110 degrees West. Guam, Howland Island, Jarvis Island, Johnston Island (including Sand Island) Kingman Reef, Midway (Includes Eastern and Sand Islands), Commonwealth of Northern Mariana Islands (Formerly Ladrone Islands) (Agrihan, Aguijan, Alamagan, Anatahan, Asuncion, Guguan, Maug, Medinilla, Pagan, Farallon de Pajaros, Rota, Saipan, Sarigan, Tinian and excluding Guam. Palmyra Island (Some 50 islands make up the Atoll of Palmyra), American Samoa (Aunuu, Manua Group [or Islands, i.e., Ofu, Olosega, Tau], Rose Island, Swains Island, Tutuila), Wake Island.

17th District Alaska.

### **G.3.4 U.S. Navy-Marine Corps MARS Regions (see Figure 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.

### **G.3.5 U.S. 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 degrees West), Washington, Wyoming).

### **G.3.6 U.S. Army Frequency Coordination Areas (see Figure 6)**

AFMO US&P - Alabama, Alaska, Arkansas, California, Colorado (less the area west of 108° West), Connecticut, Delaware, Florida, Georgia, Hawaii, 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, DC)-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.

### **G.3.7 FAA Regions (no Figure)**

### **G.3.8 The Coordination of Unclassified Frequencies Will be Done Through the FAA Webfer Web Portal Located at [Https://Webfer.Faa.Gov](https://Webfer.Faa.Gov) (See Annex D).NRC Regions (see Figure 7)**

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.

### **G.3.9 FEMA Regions (see Figure 8)**

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.

### **G.3.10 EPA Regions (see Figure 9)**

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.

### **G.3.11 GSA Regions (see Figure 10)**

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, MO includes: Iowa, Kansas, Missouri, and Nebraska.

Region VII-Headquarters at Fort 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.

### G.3.12 USAF MARS Regions (see Figure 11)

Area	Regions
Northeast	I, II, III
Southeast	IV
North Central	V, VII
South Central	VI
Northeast	VIII, X
Southwest	IX

Region	States
I or 1	CT, MA, ME, NH, RI, VT
II or 2	NJ, NY
III or 3	DE, MD (including DC) PA, VA, WV
IV or 4	AL, FL (including PR, VI), GA, KY, MS, NC, TN, SC
V or 5	IL, IN, MI, MN, OH, WI
VI or 6	AR, LA, NM, OK, TX
VII or 7	IA, KS, MO, NE
VIII or 8	CO, MT, ND, SD, WY, UT
IX or 9	AZ, CA, NV, HI, GUM and Pacific Islands
X or 10	AK, ID, OR, WA

### **G.3.13 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.

### **G.3.14 VA Health Administration Integrated Service Network by (VISN) by Boundaries (see Figure 13)**

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**

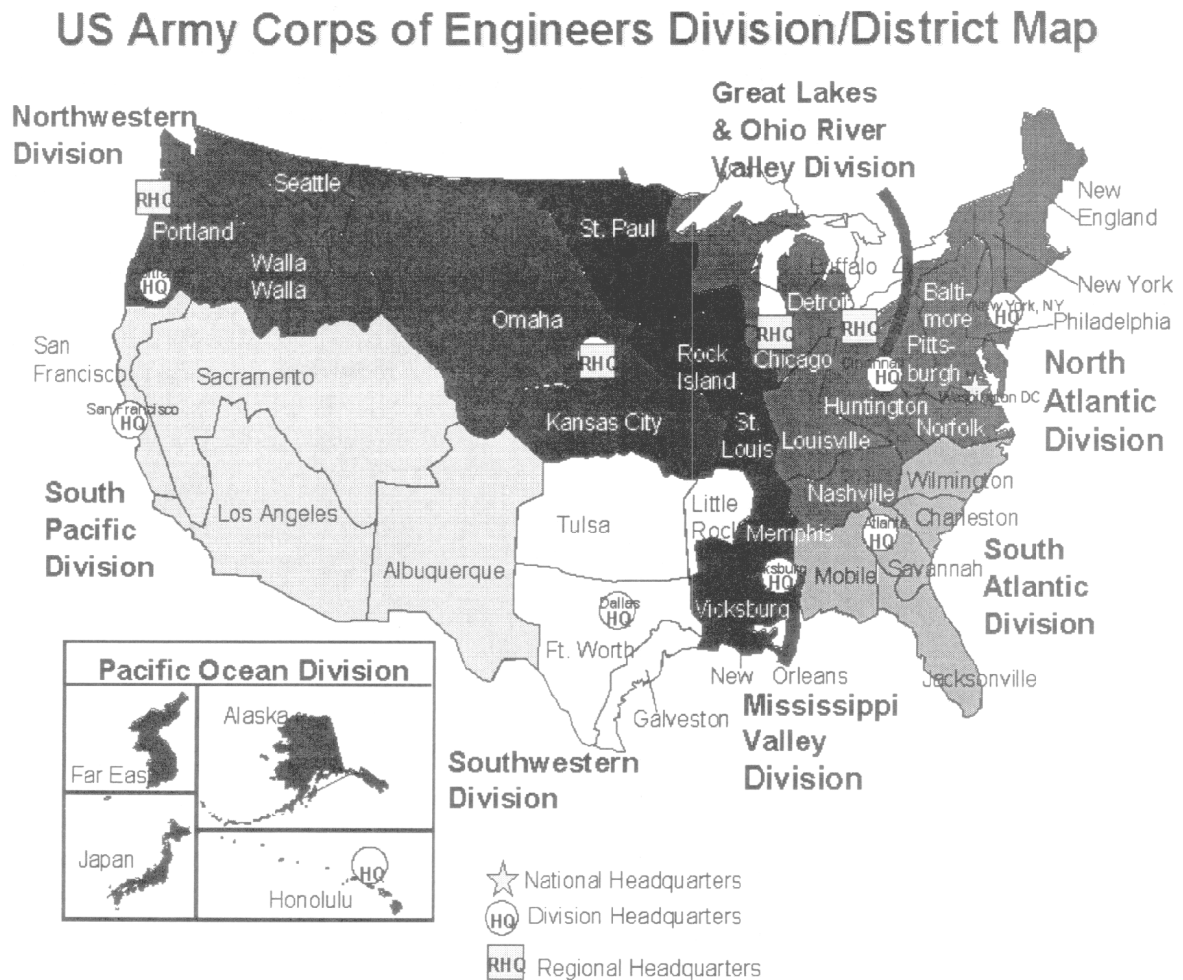


Figure 2: Tennessee Valley Authority

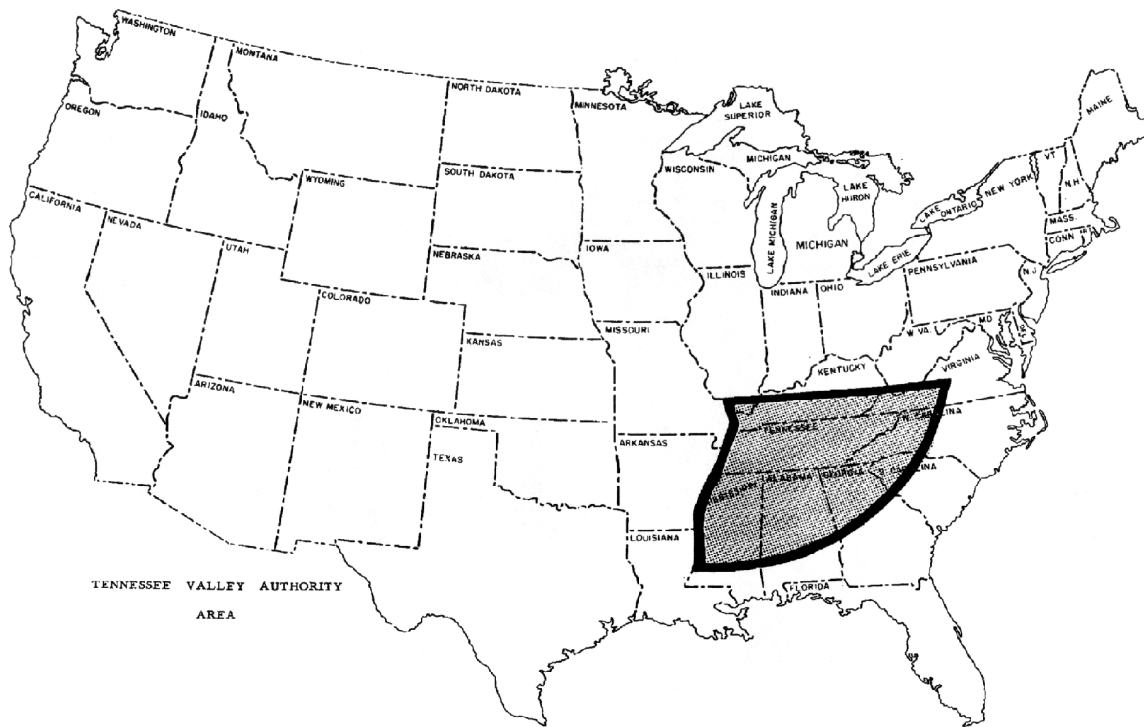
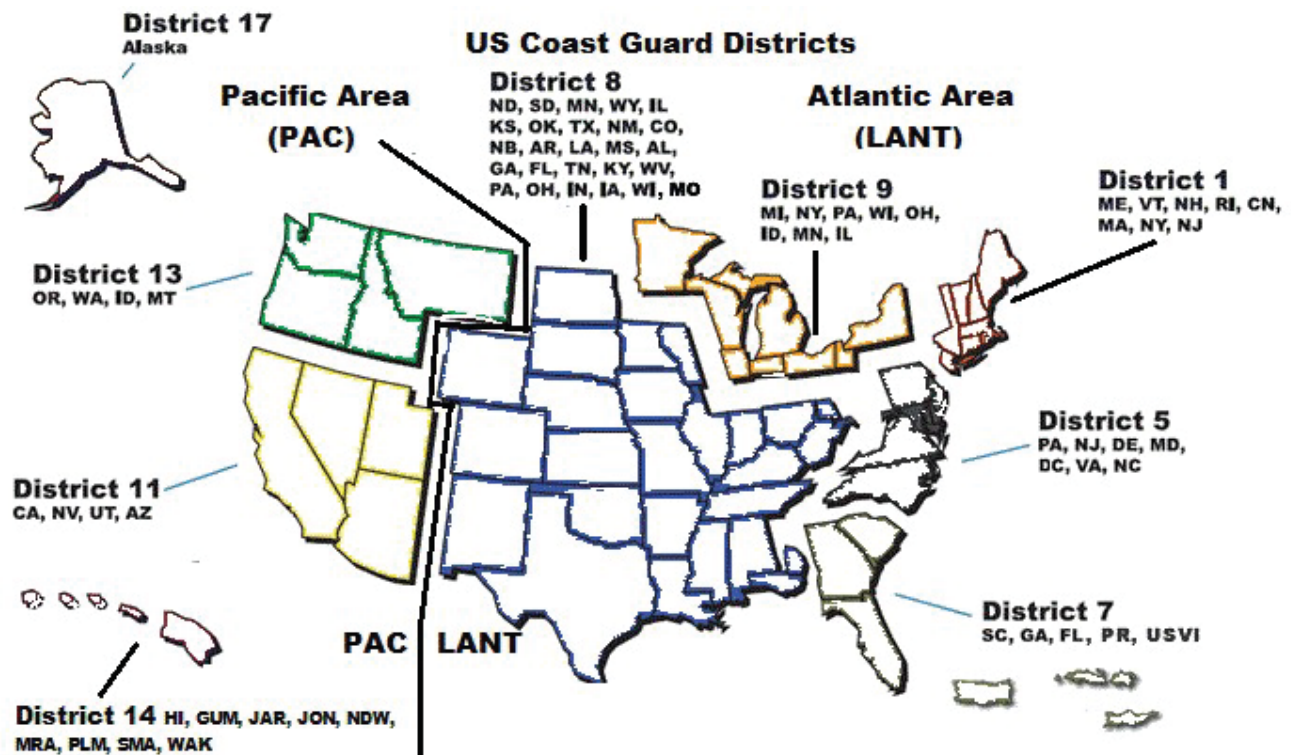


Figure 3: U.S. Coast Guard Districts



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*January 2021 Edition (Rev. 1/2022)*



Figure 5: U.S. Army Area Coordinators

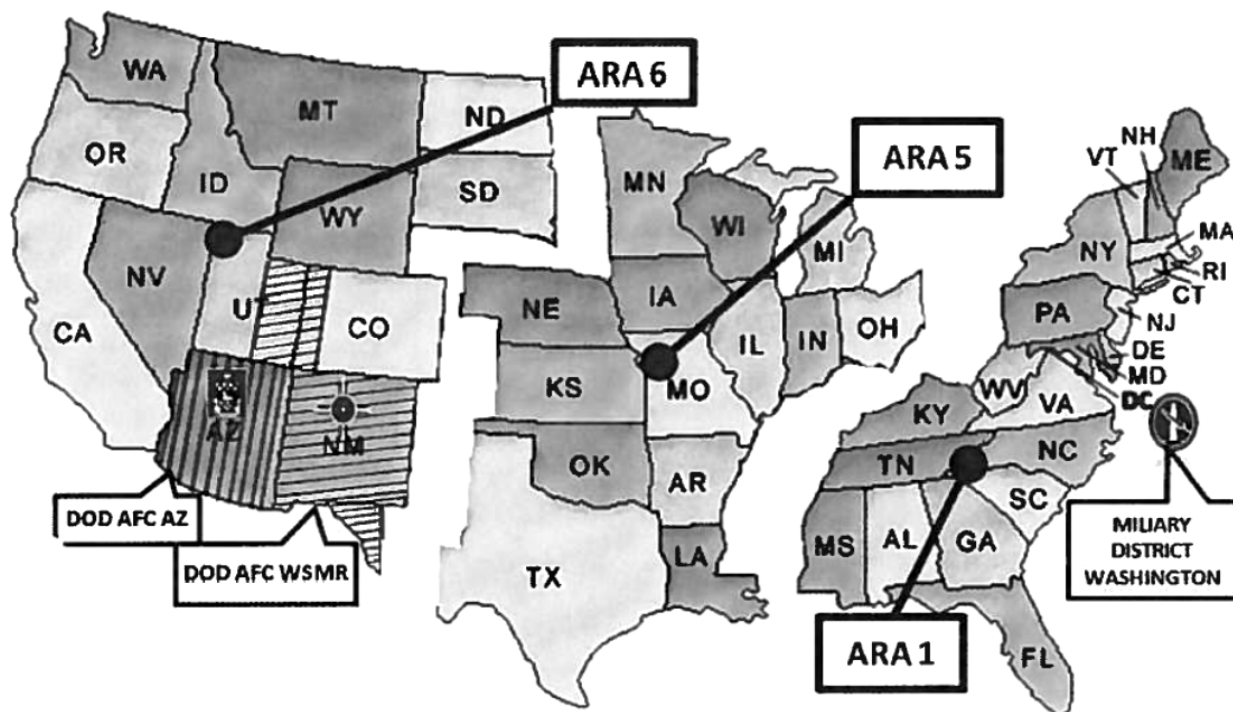
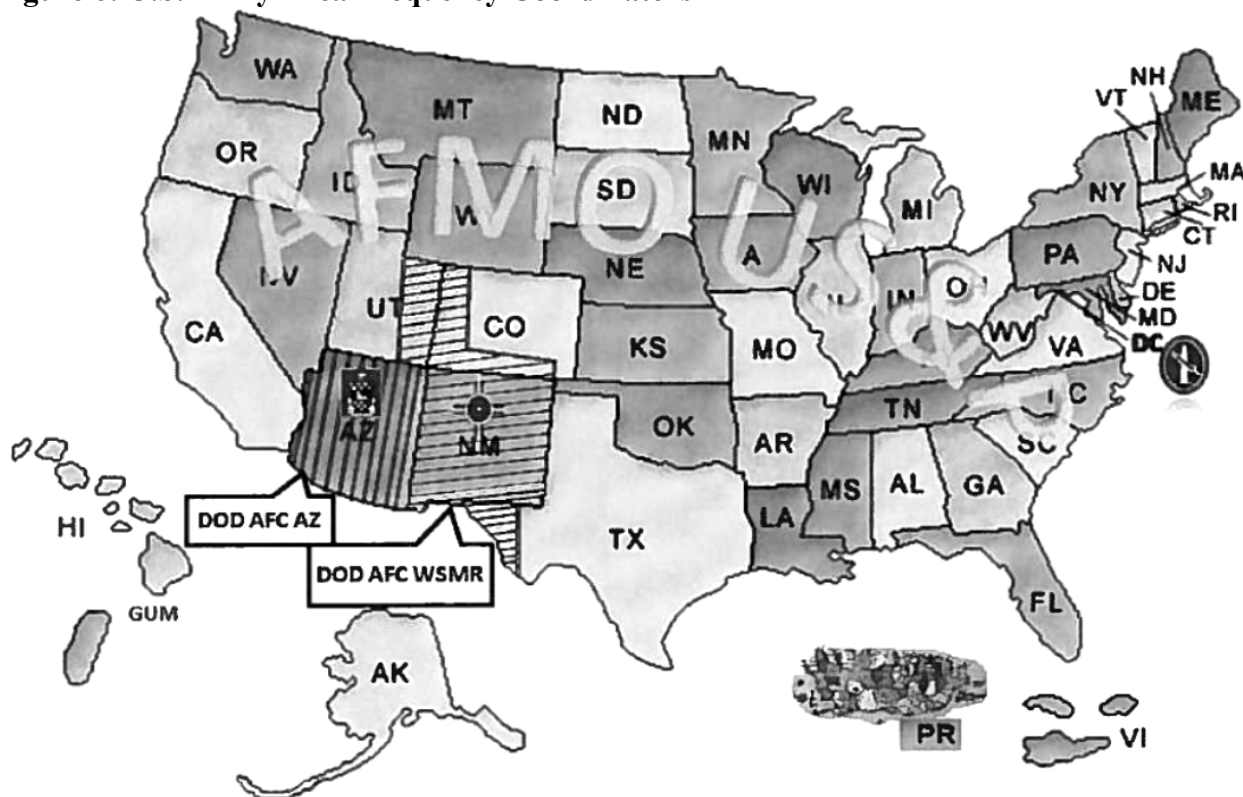
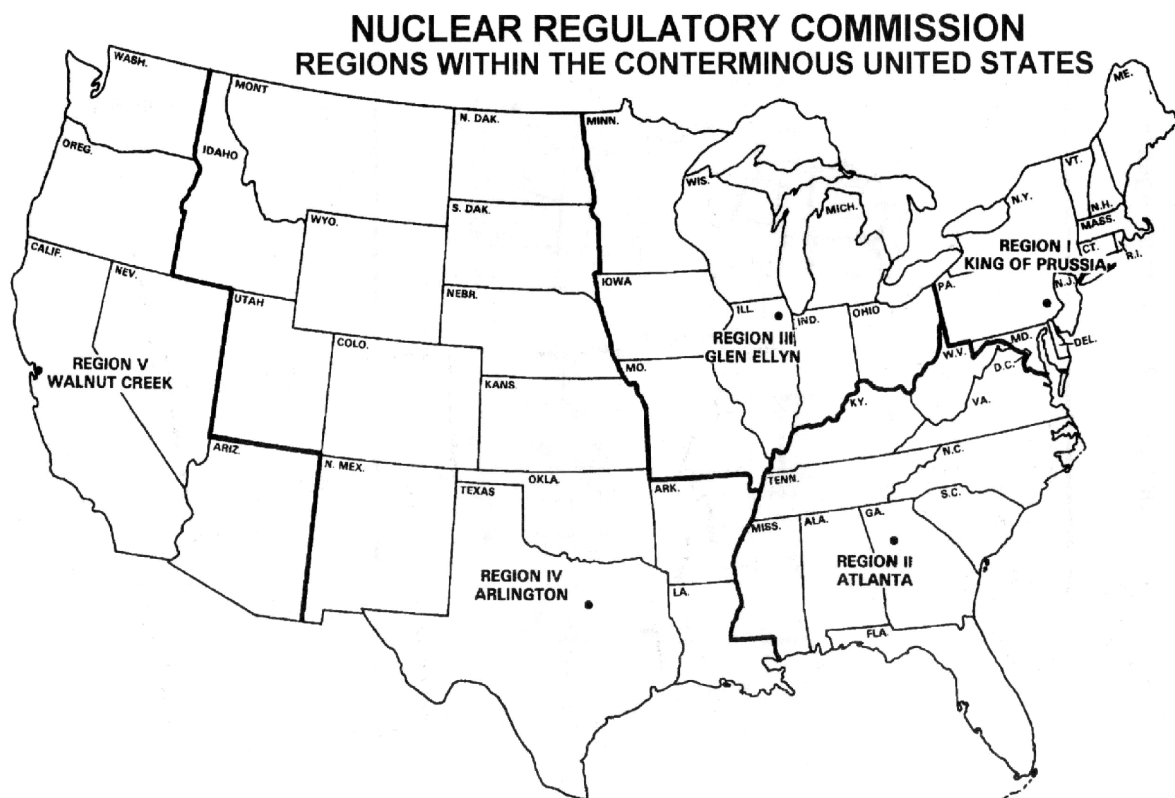


Figure 6: U.S. Army Area Frequency Coordinators





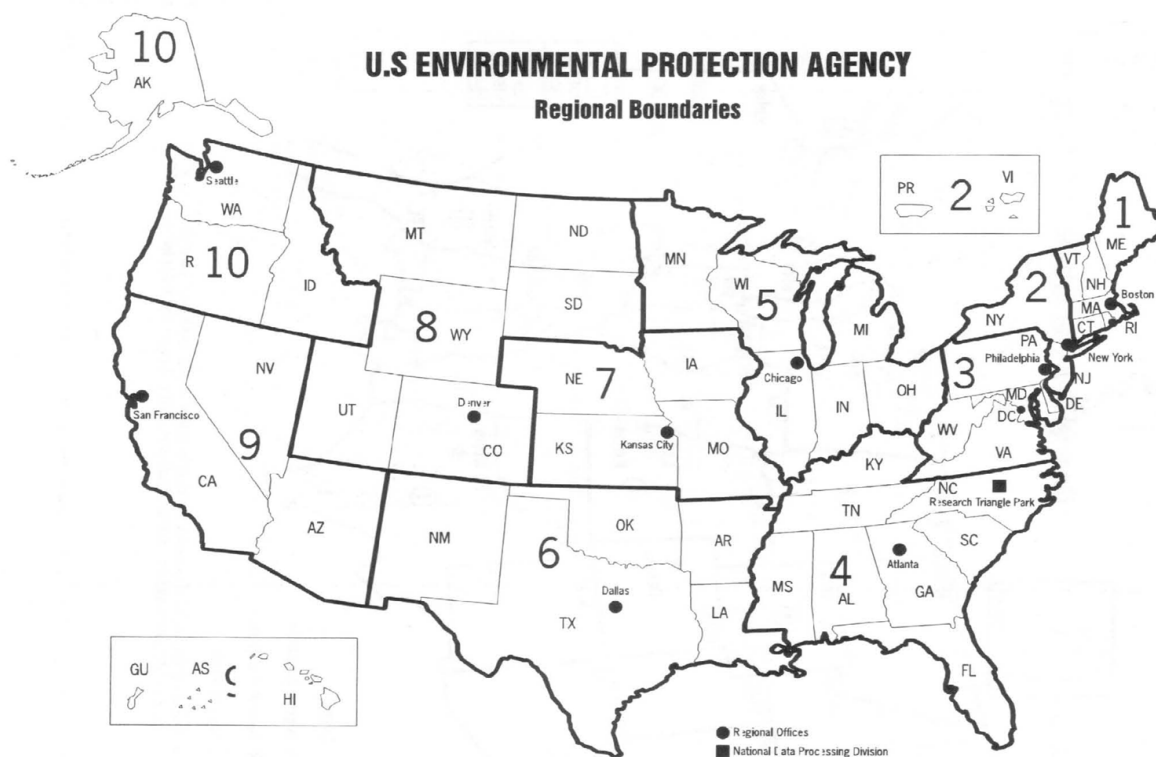
**Figure 7: Nuclear Regulatory Commission Regions**



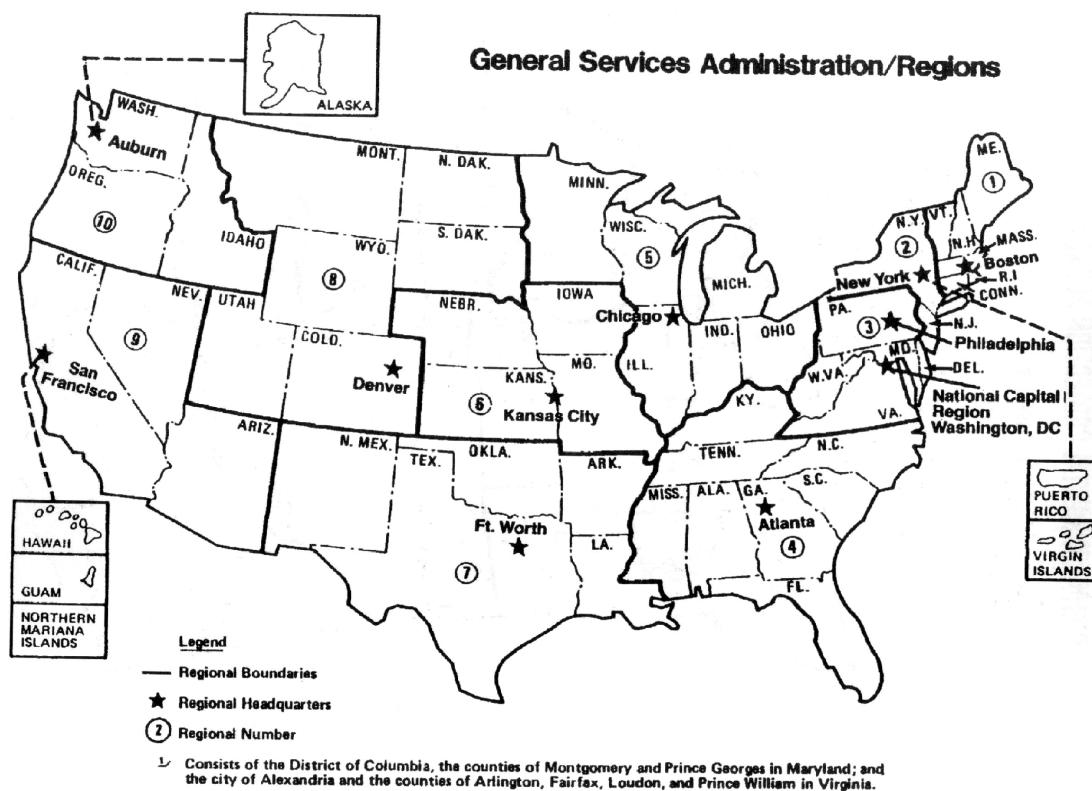
**Figure 8: Federal Emergency Management Agency Regions**



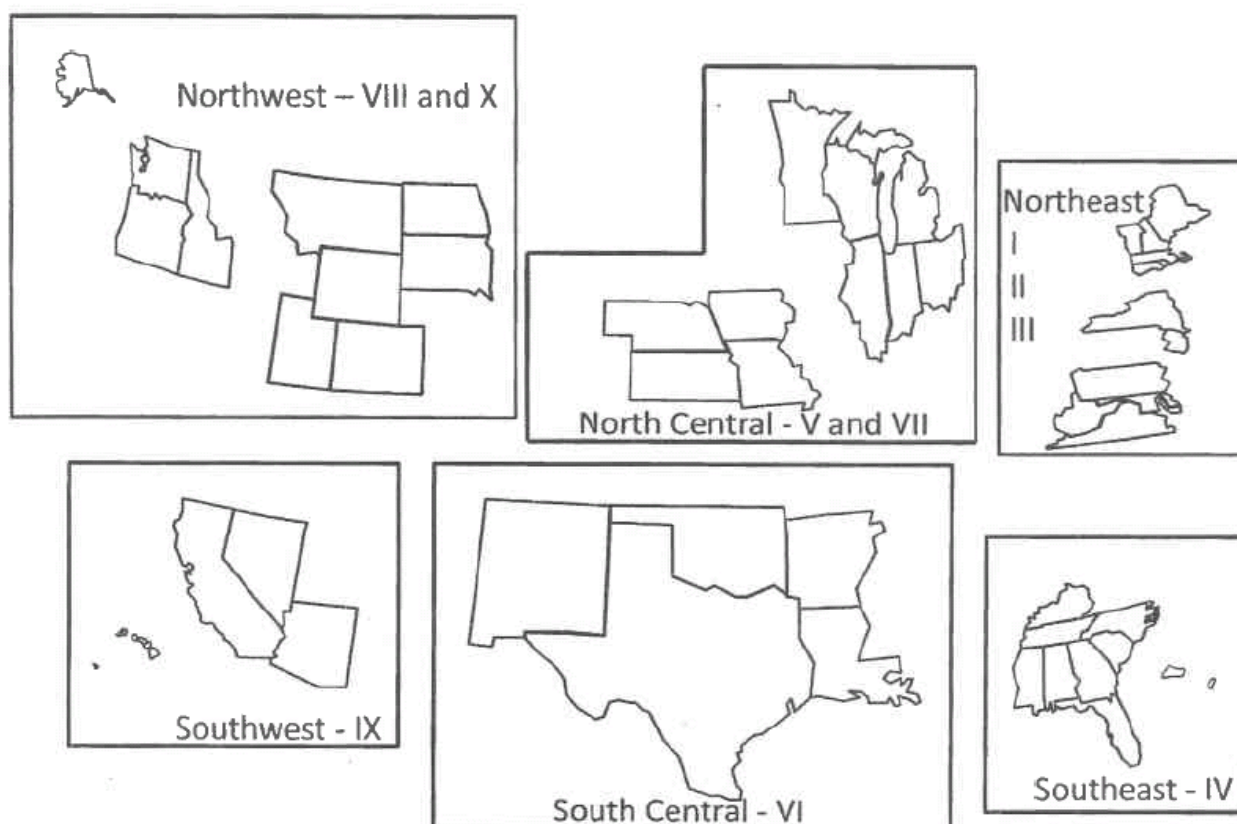
**Figure 9: U.S. Environmental Protection Agency Regions**



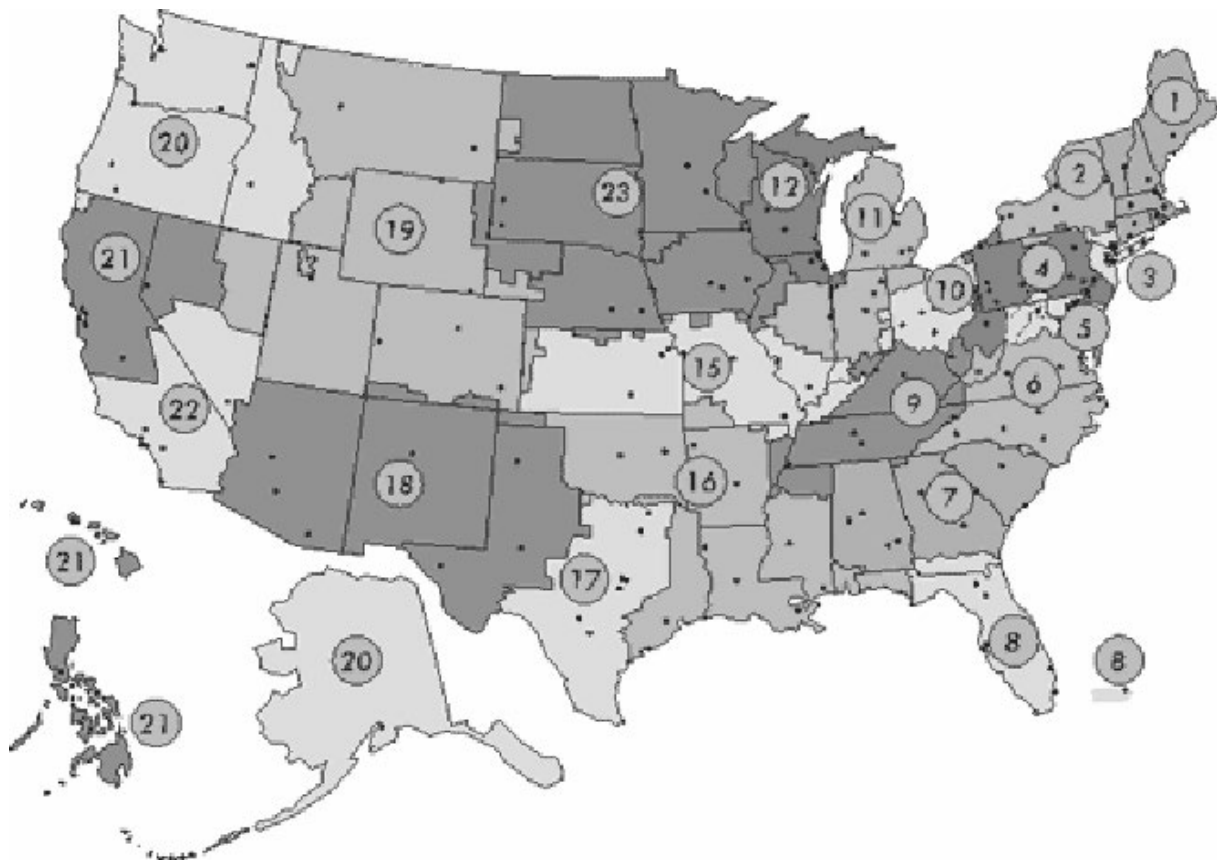
**Figure 10: General Services Administration Regions**



**Figure 11: U.S. Air Force Mars Regions**



**Figure 12: Veterans Affairs Health Administration Integrated Service Network by (VISN) by Boundaries**



#### G.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 MANUFACTURER CODES

This section of Annex G contains those manufacturer codes that will be used in the Circuit Remarks (REM) fields of the GMF (see Section 9.8.2, 39.o, General).

A		ACE	Aeronautical Communications Equipment Inc.
AAC	AACOMM, Inc.	ACI	Air Communications Inc.
AAI	Aircraft Armaments Inc.	ACO	Aerospace Corporation
AAO	Aero Astro LLC	ACP	Accipiter
AAS	AES Corporation	ACR	Acrodyne or Acrodyne Industries Inc.
AAT	Airsys ATM	ACT	ALCATEL
ABN	Aruba Networks	ADN	Advanced Navigation Inc.
ACC	ACE Communications	ADS	General Electric/Astro Space Division

ADU	Advanced Communications Systems Inc.	ASR	Astra LLC
ADV	Audio-Vac	AST	Astro Communication Laboratories or Astaron Electronics Ltd.
AEC	Allied Electronics Corp.	ASY	Antenna Systems Inc.
AEO	Aer-O-Com	ATC	Astro Telecom Corp.
AER	Aeronautical Electronic Inc.	ATE	Advanced Tech Talk
AES	Aerosonic Corp.	ATF	Advanced Techcom Inc.
AGI	Agilent	ATI	Amerasia Technology Inc.
AGN	AGA Navigation Aids Limited	ATM	Automation Inc.
AGT	Amergint Technologies	ATN	Aviat Networks
AHI	Aleth Inc.	ATT	American Telephone & Telegraph
AIC	Atmospheric Instrumentation Research Corp.	ATX	Advanced Training Systems
AID	Audio Intelligence Devices Inc.	AUD	Audio-Sine, Inc.
AIE	Aire-Sciences, Inc.	AUT	Audio-Technica US Inc.
AII	Atmospheric Instrument Research, Inc.	AVE	Aveillant
AIL	Airborne Instrument Laboratories	AVI	Avitron Inc.
AIM	Artemis Inc.	AVN	Aerovironment
AIO	AIRONET	AVR	Alvarion
AIR	Aireon Manufacture Corp.	AVT	Avtek Co.
AIS	Air Science Inc.	AWC	Athena Wireless Communications
AKL	Akela Corporation	AWI	All Weather Inc.
ALC	Applied Research Corp.	AYD	Aydin
ALL	Allison Electronics	AYI	Airport Systems International, Inc.
ALN	Alenia Spazio	AZD	Azden, Inc.
ALO	ALINCO	<b>B</b>	
ALP	Aleph Inc.	BAC	Barry Research Corp.
ALT	Altech Lansing	BAD	BAE Systems
ALV	Alva Radio Industries	BAE	Barth Engineering & Mfg. Co.
ALX	Aeroflex Lintek Corporation	BAN	Belair Networks
AMH	Amherst Systems, Inc.	BAO	Baofeng Ltd.
AMK	Ameri-King Corporation	BAR	Barrett Electronics
AMR	Amplifier Research Corporation	BBC	Black Box Corporation
AMS	American Systems	BDW	BridgeWave Communications
AND	Andrew Corp.	BEA	Becker Avionics
ANO	ANACOM	BEE	Beel Technologies, Inc.
ANP	Antenna Products Co.	BEG	Bendix/King Mobile Communications
ANR	Anritsu	BEN	Bendix Corp. or Bendix Aviation Corp.
ANS	Antenna Specialists Co.	BER	Bertea Products or Bertea Corporation
ANT	Arnet	BEX	Bext Inc.
AOC	Air Associates Co.	BLS	Balise
API	Applied Research, Inc.	BMI	Battelle Memorial Institute
APN	Applied Concepts	BMS	Broadcast Microwave Services
APO	Appareo Systems	BOA	Boeing Aerospace
APS	Applied Systems Engineering	BOE	Boeing Aircraft
APT	Applied Technology	BRG	BRG Precision Products
ARA	ARTAIS Inc.	BRI	Bristol Aerospace Ltd.
ARB	Airbus	BRK	Briartek Incorporated
ARC	Aircraft Radio Corp.	BRN	Baron Services
ARE	Atlantic Research Corp.	BRT	Broadcast Electronics
ARJ	Aeronautical Radio Inc. or ARINC	BTI	Burle Technologies, Inc.
ARM	Armstrong Transmitting Corp.	BUT	Butler National Corp.
ART	Allied Radio Shack	BVS	Berkeley Varitronics Systems
ARX	Artex Aircraft Supplies, Inc.	BZR	Bonzer, Inc.
ARY	Airsys ATM Inc.	<b>C</b>	
ASC	Astronics Corp.	CAB	Campbell Manufacture Company, Ltd.
ASE	Astral Electronics Inc.	CAC	Cessna Aircraft Co.
ASG	Allied Signal Commercial Aviation System	CAI	Communications Associates, Inc.
ASI	Alto Scientific Inc.	CAM	Cambium Networks
ASL	Aarceff Systems Limited	CAP	Communications Applied Technology
ASM	Astromarine Products Corp.	CAR	Canadian Radio Corp.
ASP	A/S S.P. Radio		

CAT Canadian Telephone Co.  
 CAV Cavotec Microcontrols  
 CAW CalAmp Wireless Network Corporation  
 CBE Crown Broadcast Electronics  
 CBM CBM Electronics  
 CBS Campell Scientific, Inc.  
 CCB Control Chiefs, Inc.  
 CCC Cadion Communications Corp.  
 CCD Control Industries  
 CCF Coastal Climate Company  
 CCI Communications Carriers, Inc.  
 CCJ Communications Co., Inc.  
 CCP Continental Electric Corporation  
 CDD Combat Direction Systems Activity Dam Neck  
 CDN Cardian Electronics  
 CDP Codan Pty, Ltd.  
 CDS Cubic Defense Systems  
 CEC Continental Electronics Corporation  
 CEG Ceragon Networks Inc.  
 CEL Colorado Electronics  
 CEM Continental Electronics Manufacturing Co.  
 CEO Celesco Industries  
 CER Centry Research Corp.  
 CET CETEC Vega  
 CFM California Microwave  
 CHM Chesapeake Microwave  
 CIC Cubic Industrial Corp.  
 CIN Cincinnati Electronic Corp.  
 CIS Cisco  
 CKI CACI International, Inc.  
 CLN Ciello Networks  
 CLO Ciello Digital Radios  
 CLU Campbell Scientific Inc. Of Logan Utah  
 CMI CMI, Inc.  
 CMO Canadian Motorola  
 CMT COMMTACT, Inc.  
 CMU Communitronics Ltd  
 CNC Conic Corp.  
 CNI Contraves Italiana  
 COA Communication Specialities  
 COB Cobra  
 COC Communication Co.  
 COI Comtech Lab, Inc.  
 COL Collins Radio Co.  
 COM Comrex  
 CON Continental Electronics, Ltd.  
 COP Communications Products Co.  
 COS Cosser Electronic  
 COU Courier Communications, Inc.  
 CPI CPI, Communications  
 CRB Commercial Resources Communications  
 CRP Concord Electronics Corp.  
 CRT Cartwright Electronics Inc.  
 CRU Cruise Technology  
 CSC Customs Signal Corp.  
 CSI Control Science, Inc.  
 CSP CSpeed  
 CTE CEA Technologies  
 CTL Crescend Technologies LLC  
 CTM Continental Microwave & Tool Co.

CTR Cattron, Inc.  
 CTW Commtech Wireless  
 CUB Cubic Co.  
 CUS Cush Craft  
 CWE Comwave  
 CWI Cartwright, Inc.  
 CYB Cybermation  
**D**  
 DAE Davco Electronics Inc.  
 DAN Daniels Electronics Limited  
 DAT Data Control Systems  
 DBM Three DBM Systems  
 DCE Decatur Electronics, Inc.  
 DCI Defense Communications Engineering Inc.  
 DCM Delcom  
 DCT De Tect, Inc.  
 DDL Doodle Labs  
 DEA Decca Radar Ltd. UK  
 DEC dbSpectra Systems  
 DEL Del Mar Avionics  
 DES Delstar Corp.  
 DET Detroit Bullet Trap Co.  
 DIG Digital Radio  
 DII Digi International Inc.  
 DIT Digitize, Inc.  
 DIX Dixon Industries Corp.  
 DLN Del Norte  
 DMC Digital Microwave Corp.  
 DMI Data Marine International  
 DMS Detection Monitoring Technologies  
 DNT Del Norte Technology, Inc.  
 DOR Dorsett Laboratories  
 DOS Dorsett Electronics Division (LaBarge, Inc.)  
 DRA Drake RF Co.  
 DRI Decca Radar, Inc.  
 DRK Data Radio Corp.  
 DRS DRS Technologies  
 DSI Delta Sigma Inc.  
 DSY Defense Systems, Inc.  
 DTC DTC Communications  
 DTE Daytong Electronics, Ltd.  
 DTM Datum  
 DTW Datawell  
 DWI DragonWave Inc.  
 DXR DX Radio Corp.  
 DYC Dynamic Communications  
 DYN Dynetics, Inc.  
 DYS Dynascan Corp.  
**E**  
 EAD European Aeronautic Defense and Space Co.  
 EAI Elta-Ashdod Israel  
 EAR Earmark, Inc.  
 ECL Eaton Corp. AIL DIVN.  
 ECH Echodyne Corp.  
 ECR Edcor  
 EDO EDO Corp.  
 EDR EDO Aire  
 EEE EMCEE, Co.  
 EFD EF Data  
 EGX Energy-Onix



EIP	Electromatic, Inc.	GDE	General Dynamics/Electronics
ELA	Ellason	GDI	Godfrey Engineering, Inc.
ELM	Electronic Material International, Ltd.	GEC	GEC Telecommunications, Ltd.
ELS	Electromagnetic Sciences, Inc.	GEL	General Electronics Laboratories, Inc.
EMA	Electro Magnetic Sciences Co.	GEM	Gem Marine Products
EMC	Electronics Missiles Communications, Inc.	GEN	General Electric Corp.
EMH	Electro-Mechanics Co.	GEP	Genesys Systems
EMI	EMI-Cossor Electronics Ltd. or EMI Marine Division	GEV	Genave
EMR	Electro Mechanical Research, Inc.	GIC	General Instrument Corp.
ENI	Electronic Navigation Instruments	GIT	Georgia Institute of Technology
EPS	EPSCO, Inc.	GLB	GLB Electronics, Buffalo, N.Y.
ERA	Ericsson, L.M. Ltd.	GLM	Global Microwave Systems
ERD	Emhiser Rand	GMC	General Motors Corp.
ERI	Electronics Research Industries	GME	General Microwave Services
ERN	Erichson	GMI	General Microwave Corporation
ERX	Emhiser Research, Inc.	GMS	Galaxy Micro Systems, Inc.
ESC	Esco	GMW	Global Microwave, Inc.
ESD	ESL, Inc.	GNI	GPS Networking Inc
ESE	Electronic System Technology	GON	Gonset Corp. or Gonset Division of Aerotron or Dumont Division of Gonset
ESI	Energy Systems, Inc.	GPS	GPS Source Inc.
EST	Electric Service Co.	GRA	Granger Associates or Bauer Broadcast Division of Granger
ETC	Eagle Telecom	GRC	General Radio Co.
ETE	Enterprise Electronics, Inc.	GRO	Ground Data Corp.
ETR	Ecatek, Inc.	GRT	General Radiotelephone Co.
ETS	Electronic Systems Technology	GRY	Gryphon, Inc.
EWR	EWR Weather Radar Systems	GSI	Geophysical Survey Systems, Inc.
EXA	Exalt Communications Inc.	GYE	Glenayre
EXI	EXICOM New Zealand, Ltd.	<b>H</b>	
EXT	Executone, Inc.	HAC	Harris Corp.
<b>F</b>		HAD	Harris Aerospace Systems Div.
FAA	Federal Aviation Administration	HAN	Handar Company
FAL	Frant, Alan I.W.	HAR	Harvey Radio Laboratories, Inc.
FAP	Fran Air Products Co.	HDS	Household Data Services, Inc.
FAR	Farnsworth TV Radio	HEL	Hermes Electronics
FAS	Ford Aerospace Corp.	HEP	Hewlett Packard
FEC	Farinon Electric	HFI	Harris Farinon, Inc.
FER	Ferguson Communications, Inc.	HFR	Haigh-Farr, Inc.
FFS	Free Flight Systems	HIC	Harris Intertype Corp.
FGI	Fleetwood Group, Inc.	HII	Herley Industries
FLL	Flight Refuel, Ltd.	HIS	Highway Information Systems, Inc.
FLR	FLIR Systems Inc.	HIT	Hitec RCD Inc.
FLT	Flite-Tronics	HME	Hartman Marine Electronics Corp.
FMI	Farinon Microwave	HMI	HM Electronics, Inc.
FMN	Fluid Mesh Networks	HMS	Herley Microwave Systems
FMU	Fmuser	HNS	Hughes Network Systems
FOR	Fort Worth Tower Co.	HON	Honeywell
FOT	Fortress Technologies	HOR	Horizon
FRF	FRF Communications	HRC	Henry Radio Co.
FRW	Freewave Inc.	HRS	Hendy Radio Service
FSG	Futurecom Systems Group Inc.	HSA	Hallands Signal Attaraten
FUJ	Fujitsu Tem Corp. of America	HSC	Hawkeye Systems Corp.
FUR	Furuno	HSI	Hi Sierra
FUT	Futaba	HTI	Hamtronics, Inc.
<b>G</b>		HTS	HT Systems
GAA	General Atomics Aeronautical Systems	HUA	Huawei Technologies Co. Ltd.
GAE	General Aviation Electronics	HUG	Hughes Aircraft Co.
GAI	Garmin International	HUL	Hull Electronics Co.
GAL	Granger Associates, Ltd.	HYD	Hydrolynx
GAT	Gates Radio Co.		

HYE	Hy-Gain Electronics Corp.	KUS	Kustom Signal Corp.
HYP	Hyperlink Technologies	KUX	Kustom Electronics Inc.
HYT	Hytera America	<b>L</b>	
<b>I</b>		LAB	La Barge, Inc.
IBI	IBIS Tek	LAC	Loea Corporation
IBM	International Business Machine Co.	LAN	Lance Antenna Corp.
ICM	ICOM	LAR	Largo Electronic Manufacturers Inc.
ICO	International Corp.	LCA	Univ. of Lowell Center for Atmospheric Research
ICS	Industrial Comm Systems	LCT	Locata Corp.
ICX	ICX Technologies	LDS	Loral Data Systems
IEC	IEC Electronics Corp.	LEA	Lear, Inc.
IFR	Instrument Flight Research Corp.	LED	Lucas Ledex
ILS	International Laser Systems, Inc.	LEN	Lenkurt Electric Co.
IMC	International Microwave Corp.	LET	Lectrosonics, Inc.
IMR	Imsar LLC	LII	Litton Industries
IMS	International Meteorological Systems	LIG	Ligowave
IMT	Integrated Microwave Technologies	LIL	Lincoln Laboratory
INC	INTRAC	LLL	Lawrence Livermore Laboratory
INE	Intech, Inc.	LMB	Lambda RF Systems
INN	Innoflight, Inc.	LNR	LNR Communications, Inc.
INT	Interstate Electronics Co.	LOA	Los Alamos National Laboratories
IPA	IP Access	LOC	Lockheed Electronics
IRC	Islip Radio Corp.	LOE	Loral Electronics Corp.
IPW	IP Wireless	LOM	Lockheed Martin Astro Space
ISC	International Signal Control	LOR	Lorrain County Radio Corp.
ISS	Information Station Specialist	LOS	Lockheed Sanders, Inc.
ITF	ITT Defense Communications	LPB	Low Power Broadcast Co.
ITG	ITT Gilfillan	LPO	Linear Photonics
ITM	ITT Mackay Marine	LRD	Laird Technologies
ITO	ITT Aerospace/Optical	LSC	L-3 Space Communications
ITP	International Telephone & Telegraph Corp. or ITT Industrial Products	LSI	Liteye Systems, Inc.
ITS	ITT Standard	LTC	L-3 Communications
ITT	ITT Federal Laboratories	LUC	Lucos Air Space
<b>J</b>		LUM	Lumistar
JDE	John Deere	LUX	Luxul Corporation
JDT	Johnson Data Telemetry Corp.	LYN	Lynch Communications Systems, Inc.
JEP	Jet Propulsion Laboratory	<b>M</b>	
JER	Jerrold Electronics Corp.	MAB	M/A Comm AC, Inc.
JHU	Johns Hopkins University	MAC	Marconi Instruments, Division of English Electronics
JOH	Johnson E.F.	MAE	Marine-Air Systems, Ltd.
JOT	Jotron USA, Inc.	MAG	Magnavox Co.
JRC	Japan Radio Co.	MAI	Moseley Associates, Inc.
JTC	Janteq Corp.	MAM	M/A COMM MAC
<b>K</b>		MAR	Mark Products Co.
KAR	Kaar Engineering	MAS	Mid American Relay Systems
KDK	KDK Inc.	MAX	Maxson Electronics Corp. (Electronics Design)
KED	Kenwood	MAZ	Mas Zengrande LTD
KEL	Kelvin Hughes, Ltd.	MBE	Marcel Bassaulet Electronics
KEN	Kennedy Co.	MBR	Malibu Research
KFE	K-F Electronics	MCA	Microair Avianics Pty Ltd
KIG	Kingfisher	MCC	Microcom Corp.
KIN	King Radio Corp.	MCE	Micro Electronics
KLT	Leltron Corp.	MCI	Marconi Radio
KOD	Koden America, Inc	MCJ	Marconi Electronics
KON	Kongsberg Seatex AS	MCL	Microwave Cavity Laboratory
KRA	Kraft Systems	MCN	Morris Communications Co
KST	Keysight Technologies, Inc.	MCO	Micro Communications Co.
KTA	Keltron Corporation	MCS	Mercury Systems
KTI	Keltec Industries	MCT	Micro Control Specialities
		MDC	Microdyne Corp.



MDH Madah-Com  
MDM Microwave Design Manufacturing, Inc.  
MDS Metrodata Systems  
MDY Microwave Data System  
MET Metrotek Electronics Co.  
MFX Morfax, Ltd.  
MGD Meggit Defense Systems  
MGI Megapulse, Inc.  
MGT Magnetek  
MHR Minneapolis Honeywell Regulator  
MHS Microhard Systems Inc.  
MIB Mitsubishi Denki Co. or Mitsubishi Electric  
MIC Microdot, Inc.  
MID Microfix Instruments, Ltd.  
MIE Mitre Corporation  
MIL Micro-Linke Corp.  
MIN Midland Intl. Corp.  
MIT Minatronics Corp.  
MIW Microwave Associates, Inc.  
MKY Mackay Radio-Telegraph Co.  
MLR R. A. Miller Industries  
MMA Martin Marietta Air Space  
MML Micromil Electronics, Ltd.  
MMT Millimeter Wave Technology  
MNE Mnemonics Inc.  
MNI Microwave Network, Inc.  
MNO Microwave Innovations  
MNT Montec (Divn of E-Systems)  
MOC Model Rectifier Co.  
MOD Modar Electronics  
MOE Monaco Enterprises, Inc.  
MON Monitor Electronics  
MOO Moog Inc  
MOT Motorola Corp.  
MOX Mobile Communications  
MPH MPH Industries, Inc.  
MPI Microwave Products, Inc  
MPN Multipoint Network  
MRC Midwest Radio Corp.  
MRE Monicor Electronics  
MRF Mid-Atlantic RF Systems  
MRK MikroTik  
MRR Marti  
MRS Micro Systems, Inc.  
MRT Marti Electronics  
MSD Marconi Space and Defense Systems  
MSY Meteric Systems Corp.  
MTI Mobile Telesystem, Inc.  
MTK Metek GMBH  
MTN Monitron Corp.  
MTR Meteor, Communications Corp.  
MTS Mobile Telesystems  
MUT Multitone Electronics, Ltd.  
MVI M/A-COM Video Systems, Inc.  
MWB Microwave Bypass Systems  
MWI Microwave Innovations  
MWO Microwave Radio Corp.  
MWS Microwave Sensors  
MWT Marconi Wireless Telegraph Co., Ltd.  
MXN Maxon Electronics, Inc.

**N**  
NAU Nautel  
NAV Naval Avionics  
NCC Nutex Communications Corp  
NEA NEC America, Inc.  
NEC Nemsclarke  
NER Nera  
NEU Neulink, Divn of Celltronics  
NMT New Mexico Tech  
NOC Northrop Corp.  
NOI Nokia  
NOR Northeast Medal Industries  
NOV Nova-Tech/Avionics or Nova Tech Inc.  
NRA Northern Radio Co. or Northern Electronic Co.  
NRB NARCO  
NRC National Aeronautic Corp.  
NSI Nady System, Inc.  
NSM News And Sports Microwave  
NUC Nucomm  
NUW NuWaves Engineering  
NVL Novalynx Corp.  
NVR Novra Technologies Inc.  
**O**  
OAI Oklahoma Aerotronics, Inc.  
OAO OAO Corp.  
OAR Ocean Applied Research Corp.  
OCA Obstruction Collision Avoidance System Inc.  
OMB OMB Sistemas Electronicos S.A.  
OMN Omnitek  
OPH Ophir  
OPS Opos Electronics  
OSC Orbital Sciences Corp.  
OSL Orbital Systems, LTD  
OTX Omni Tronix  
**P**  
PAD Pacific Advanced Engineering, Inc.  
PAE Park Aire Electronics  
PAS Park Air Systems  
PAU Pauldon  
PAV PAVCO  
PCM Pacific Communications  
PCR Pacific Crest Corp.  
PCS Proportional Control Systems  
PDL Paradise Datacom LLC/LTD  
PEA Pearce Simpson, Inc.  
PEG Peninsula Engineering Corp.  
PER Persistent System  
PFE Professional Electronics  
PHI Philco Corp.  
PHX Phoenix Contact  
PLE Plessey Company, Ltd. (UK)  
PMH Pacific Microwave Research  
PMX Primex Wireless Clock System  
POE Pointer Electronics  
PPI Peter Pepper Inc.  
PRI Polytronics Research, Inc.  
PRL Polar Research Lab.  
PRM Protium Technologies Inc.  
PRO Podelin, Inc.  
PRS Prosensing Inc.

PRT	Pitchard Brown	RQM	Racon, Inc. Quality Microwave
PRX	Poxim	RRC	Radio Receptor Co.
PSI	Planning Systems Incorporated	RSI	Radio Systems, Inc.
PST	Pwer Systems Technology, Inc.	RSM	Radio Specialty Manufacturing
PTI	Ptection Technology, Inc.	RSS	RS Systems, Inc.
PTK	PTEK Corporation	RTK	REFTEK
PYR	Pyramid Co.	RTL	RT Logic
<b>Q</b>		RTR	Ritron, Inc.
QEI	QEI Corp.	RWC	Rockwell, Collins
QEN	Quadrant Engineering, Inc.	<b>S</b>	
QNA	Qinetiq North America	SAB	SAAB
QUA	Qualimetrics Corp.	SAC	Sabre Communications Corp.
QUC	QALCOMM	SAD	Sandia Corp.
QUI	Quintron Corp.	SAL	Salco Manufacturing Co.
QUS	Quasonix Systems	SAT	Sarkes Tarzian, Inc.
QUT	QUALI-TRON	SCA	Scala Radio Corp.
QWC	Quarterwave Corp.	SCC	Secode Corp.
<b>R</b>		SCE	Sericore
RAC	Racal Communications, Ltd.	SCI	Scientific Atlanta Co.
RAD	Radiation, Inc.	SCM	SCM Melabs, Inc.
RAE	Racal Electronics, Ltd.	SCN	Scintec Corporation
RAG	Radian Corp.	SCT	Science Applications International Technology, Inc.
RAI	RADA Electronics Industries	SCX	Sensor Concepts Inc.
RAJ	Ray Jefferson Co.	SDC	Space Data Corporation
RAM	Raymarine Inc.	SDI	Safety Devices, Inc.
RAN	Rantec Corp.	SEA	Sears Roebuck Co.
RAS	Radio Shack	SEC	Struthers Electronics Corp.
RAV	Raveon Technologies	SEI	Seiscor Manufacturing Co.
RAW	Radwin	SEL	Selenia S.P.A. (Italy)
RAY	Raytheon Co. or Raytheon Manufacturing Co.	SEM	Seatron, Inc.
RCA	Radio Corporation of America	SEN	Sennheiser Electronic Corp.
RCE	R3 Engineering	SEO	SEMCO
RCN	Racon, Inc.	SEP	Shakespeare Electronic Product Group
RDA	Radair, Inc.	SER	Servo Corp. of America
RDE	Radtec Engineering	SFC	Safecom (Radionics)
RDL	Redline Communications, Inc	SFI	Stanford Telecommunications, Inc.
RDN	Raydyne, Inc.	SGC	Sperry Gyroscope Company of Canada, Ltd.
RDR	RDRTec Inc	SHU	Shure Brothers, Inc.
RDW	Radio Waves Inc.	SIC	SRI International
REG	Ross Engineering	SID	Sierra Digital
REI	Regency Electronics, Inc.	SIE	Sierra Electronic Division of Philco
REL	Radio Electronics Laboratories	SIG	Signal Communications
REP	Repco, Inc. or R.G.P. Co.	SIH	Siemens-Halske
REU	Reutech	SII	Sirit Corp
RFC	RF Communications Associates, Inc.	SIL	Silvus Technologies Inc.
RFE	Rafael	SIM	Simpson Electronics
RFI	Radio Frequency Communications, Inc.	SIN	Spectrum Communications, Inc.
RFT	R. F. Technology	SIP	Sippian Ocean Systems
RGC	Ranger Communications	SIR	Sitra
RHG	RHG Electronics Laboratories	SLI	Silicon Laboratories
RHT	Radio Hill Technologies	SMN	Summation Research, Inc.
RIE	Rockwell International Electronics	SMO	Sierra Misco
RIT	Ritcon, Inc.	SMT	Samson Technologies Corp.
RMC	Relm Communications, Inc.	SMW	Southern California Microwave
RMT	Remotec, Inc.	SNC	Sierra Nevada Corp.
RMX	Radiometrix	SNI	Seamarine International
ROC	Recon Optical, Inc.	SNS	Senstar Corp.
ROE	Robinson Engineering Co.	SOA	Southern Avionics
ROS	Rohde Schwarz	SON	Sonar Radio Corp.
ROT	Rothenbuhler Engineering		

SOV	Soviet Manufactured Equipment	TED	Teldex
SOY	Sony	TEI	Texas Instrument, Inc.
SOZ	Southcom International, Inc.	TEL	Telrex Laboratories
SPA	Spar Aerospace, Ltd.	TEN	Teletronix Engineering Co.
SPB	System Planning Co.	TEO	Telemotive
SPD	Sperry Corp.	TEP	Tepco Corp.
SPE	Space Electronics	TEQ	Tenna Corp.
SPI	Spirent	TER	Terra-Com
SPN	Sparton Electronics	TES	Technisonic Industries
SPO	Spotter RF	THA	Thales ATM
SPR	Sperry Corp. or Servo Corporation of America	THC	Thomson CSF
SPZ	Sperry Marine Systems	THY	Technology Service Corp
SQA	Square D Co.	TIA	Television Technology Corp.
SQL	Spacequest LTD	TIE	Tel Instrument Electronics
SRC	Schuberth Rider Communication	TII	Teledyne Industries, Inc.
SRM	Sierra Monolithics, Inc.	TIL	Transcript International
SRS	Scientific Radio Systems, Inc.	TIM	Time Domain Corporation
SRU	SATEL Radio USA	TIN	Telinstrument Co.
SSA	Selex Sensors and Airborne Systems Ltd.	TIS	Tadiran Israel Industries, Ltd.
SSN	Sensis Corp.	TKL	Teklogix, Inc.
SSR	Sensor Systems	TKM	TEK Mark Company
SST	Surrey Satellite Technology	TKT	Turnkey Technology
SSY	Stellar System	TLA	Telonica Corp
STA	Standard Electronics	TLC	TRT Groupe
STB	Standard Communications	TLF	Telefunken Gmbh.
STC	Sagotech Corp.	TLP	Telephonic Corp.
STD	Standard Elektrik Lorenz	TLR	Telline Radio
STE	Stephenson	TLX	Telex Co.
STM	ST Microwave	TMA	Tampa Microwave
STR	Stromberg Carlson Products Co.	TMC	Technical Materiel Corp.
STS	Standard Electrica S.A.	TMD	TMC Systems & Power Corp. or Telemotive Division of Dynascan
STW	Stewart Warner Corporation of Canada, Ltd.	TMR	Terma Elektronik
STX	SI-Tex Marine Electronics, Inc.	TNC	Technocom
STY	Sensor Technology Systems, Inc.	TNS	Telonics
SUM	Summers & Mills	TOA	Townsend Associates
SUN	Sunair Electronics, Inc.	TPL	Technology Proprietary, Ltd.
SUR	Sur-Tec, Inc.	TRA	Transco Products, Inc.
SUT	Sutron Co.	TRB	Trans World Communications, Inc.
SWM	Southwest Microwave Co., Inc.	TRC	Terrasat Corporation Inc.
SWR	Southwest Research Institute	TRI	Tracor, Inc.
SYA	Syracuse Research Corp.	TRM	Tram/Diamond Corp.
SYE	Systems Engineering & Management Corporation	TRN	Tran-Com
SYL	Sylvania Electronics Defense Laboratory or Sylvania Electronics Products	TRP	Tri-Com, Inc.
SYN	Synergetics	TRW	TRW Electronics
SYS	Systron Donner Corp (Demornay Bonardi)	TRZ	Travelers Information Services, Inc.
T		TSB	Transcience
TAC	Technical Appliance Corp.	TSC	Teledyne Systems Co.
TAE	Tait Electronics, Ltd.	TSI	Tactical Systems, Inc.
TBL	Trimble Navigation	TSS	Telesystems, Inc.
TBN	Tayburn	TTC	Titian Corp.
TCD	Techdyn Systems Corp.	TTG	Telectronics Technology Corporation
TCM	TCOM Industries, Inc.	TTK	Tron-Tek, Inc.
TCT	Transcidronic	TTS	Telesciences Transmission System, Inc.
TDC	Teledyne T/M Co.	TTT	Tactical Technology, Inc.
TDI	TeleDesign	TWS	Tracwell Systems Inc.
TDL	Tidelands	TWT	Trellisware Technologies Inc.
TDY	Tele-Dynamics	TYC	Tycho-Tech
TEC	Telviso Electronics	U	
		UAV	Uavionix Corporation

UBI Ubiquiti Networks Inc.  
 UBL Ublox  
 UDN Uniden  
 UNI Univac Corp.  
 UNS Unisys Corp.  
 USE Use Corporation  
 USN Universal Space Network Inc.

## V

VAI Vaisala  
 VAL Valcom, Ltd.  
 VEC Vector Manufacture Co.  
 VEG Vega Electronics Corp.  
 VER Versa-Count  
 VEX Vertex Communications Corp.  
 VHF VHF Engineering Co.  
 VIA Victoreen Instrument Co.  
 VIL Vitel  
 VIS Visual Manufacturing Division  
 VIT Vitro Electronics  
 VIX Vista Manufacturing Co.  
 VIZ VIZ Corp.  
 VLK VISLINK Plc.  
 VST Viasat Technologies Co.  
 VSX Visiplex  
 VTC Vectran Corp.  
 VTX Vortex Systems  
 VYT Vytek, Inc.

## W

WAT Washington Technological Assn., Inc  
 WAV Wavetek

WBL Weibel Scientific, Inc.  
 WEI Ward Electronic Industries  
 WES Westinghouse Electric Co.  
 WHD Windermere HDS  
 WHE Whelen  
 WIL Wilcox Electric Corp.  
 WIN Wind Data  
 WJO Watkins Johnson Co.  
 WLC Wilson Electronic Corp.  
 WMX Western Multiplex Corporation  
 WOD Wood and Douglas  
 WOU Quanzhou Wouxun Electronics Co., LTD.  
 WRL World Radio Laboratories  
 WUL Wulfsberg Electronics

## X

XCM Xicom Technology  
 XON Xontech, Inc.  
 XTR Xetron Corp.  
 XWV Xetawave LLC.

## Y

YDI Yarnell Data, Inc.  
 YEA Yaesu

## Z

ZDS Zodiac Data Systems  
 ZEP Zephyrus  
 ZET Zeta Laboratories  
 ZVA Ziva Corporation

## G.6 ANTENNA ABBREVIATIONS

This section of Annex G contains those antenna abbreviations that will be used in the XAD and RAD fields of the GMF (see Section 9.8.2, 29.b(4b) and 9.8.2, 38.b(4b)).

ANTENNA NAME	ABBREVIATION
Alford Loop	ALFORDLOOP
Annular slot	ANULARSLOT
Batwing	BATWING
Biconical	BICONICAL
Biconical Dipole	BICONCLDPL
Blade	BLADE
Bowtie	BOWTIE
Cassagrain	CASSEGRAIN
Cavity Array	CAVITYARRAY
Coaxial Collinear	COAXCOLLNR
Coaxial Dipole	COAXDIPOLE
Collinear	COLLINEAR
Collinear Array	COLLNRARRAY
Conformal Array	CNFRMLARRAY
Conical	CONICAL
Conical Horn	CONICALHRN
Corner Reflector	CORNREFLTR
Cross Dipole	CROSSDIPOL
Cross Dipole Reflector	CRDIPOLERF

ANTENNA NAME	ABBREVIATION
Dielectric Lens	DLCTLENSES
Dipole	DIPOLE
Dipole Array	DIPOLEARRY
Discone	DISCONE
Dual Log Periodic	DUALLGPRDC
Dual Yagi	DUALYAGI
Folded Coax	FOLDEDCOAX
Folded Dipole	FOLDDIPOLE
Folded Monopole	FOLDMONOPL
Ground Plane	GROUNDPLAN
Half Parabolic	HALFPARBOL
Helical	HELICAL
Helical Array	HELICALARY
Helicone	HELICONE
Helix	HELIX
Helix Array	HELIXARRY
Horn	HORN
Leaky Coax	LEAKYCOAX
Linear Array	LINEARARRY

ANTENNA NAME	ABBREVIATION
Log Periodic	LOGPERIODC
Longwire	LONGWIRE
Loop	LOOP
Loop Array	LOOPARRAY
Microstrip	MICROSTRIP
Microstrip Array	MCRSTRPARY
Monopole	MONOPOLE
Monopole Array	MONOPLARRY
Panel	PANEL
Parabolic	PARABOLIC
Parabolic Cylinder	PARABLCCYL
Patch	PATCH
Patch Array	PATCHARRAY
Phased Array	PHASEDARRAY
Phased Array Waveguide	PHSDARYWVG
Pillbox	PILLBOX
Planar	PLANAR
Planar Array	PLANARARRAY
Radiax Cable	RADIAX
Reflector	REFLECTOR
Rhombic	RHOMBIC
Skeleton Slot	SKELTNSLOT
Slot	SLOT

ANTENNA NAME	ABBREVIATION
Slot Array	SLOTARRAY
Slotted Waveguide	SLOTTDWVGD
Slotted Waveguide Planar Array	SLTWGPLNRA
Spherical Reflector	SPHRCLFLCT
Spiral	SPIRAL
Stacked Array	STACKDARRAY
Stacked Cross Dipole	STKCRSDPL
Stacked Dipole	STCKDIPOLE
Stacked Yagi	STACKDYAGI
Strip Line	STRIPLINE
Stub	STUB
Swastika	SWASTIKA
Symmetrical Tee	SYMMETRCTE
Tophat	TOPHAT
Tower	TOWER
Turnstile	TURNSTILE
V Ring	VRING
Waveguide	WAVEGUIDE
Waveguide Array	WAVEGDARRAY
Whip	WHIP
Yagi	YAGI
Yagi Array	YAGIARRAY

**(Last Page in Annex G)**