



SHARED
RESOURCES HF
RADIO PROGRAM
(SHARES)





What's SHARES?

- The SHARed RESources (SHARES) **High Frequency (HF)** Radio Program coordinates a voluntary network of government, industry, and disaster response agency HF radio stations used for emergency communications.
- SHARES supports government (federal, state, and county), critical infrastructure, and nationwide or multi-state disaster response organizations in two ways:
 - by transmitting emergency messages when normal communications systems are destroyed or unavailable,
 - and by providing HF radio channels for interoperability.
- SHARES supports Emergency Support Function Two (ESF #2), Communications, and helps participants maintain awareness of applicable regulatory, procedural, and technical issues. SHARES is a program of the National Coordinating Center for Communications (NCC), a division of the Department of Homeland Security (DHS) National Cybersecurity and Communications Integration Center (NCCIC).
- The Shared Resources (SHARES) High Frequency (HF) Radio program, administered by DHS, provides an additional means for users with a national security and emergency preparedness mission to communicate when landline and cellular communications are unavailable.
- SHARES members **use existing HF radio resources** to coordinate and transmit messages needed to perform critical functions, including those areas related to leadership, safety, maintenance of law and order, finance, and public health.



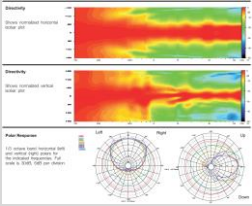
How Does SHARES Work?

- The SHARES HF Radio Program is the responsibility of and is administered by the Cybersecurity and Infrastructure Security Agency's (CISA) Cybersecurity Division (CSD).
- Members of the SHARES Program consult the SHARES Handbook to find stations, frequencies, and/or Automatic Link Establishment (ALE) addresses of participating organizations they need to communicate/coordinate with during emergency operations.
- SHARES is available on a 24-hour basis and requires no prior coordination or activation to transmit messages. Participating SHARES HF radio stations accept and relay messages until a receiving station is able to deliver the message to the intended addressee.
- The SHARES Program conducts weekly and quarterly communications exercises designed to provide users with operational knowledge, technical skills, and training in preparation for proficiency during emergencies.



What Else?

- Over 1,350 HF radio stations—representing 104 federal, state, and industry organizations, located in all 50 states, the District of Columbia, and overseas—participate in SHARES.
- Nearly 500 emergency planning and response personnel participate in SHARES.
- SHARES utilizes multiple federally-assigned HF radio channels for use by SHARES members.
- The SHARES HF Interoperability Working Group, with members representing 110 organizations, conducts HF technical reviews, provides regulatory guidance and direction for administration of the SHARES network, and promotes awareness of new HF radio technologies.



SHARES Net List

SHARES National Nets

Voice Frequencies:

- Day Freq1: 14396.5 | Day Freq 2: 14487.0
- Night: 4618.0 | Alternate: 14487.0 | 2 MHz: 2022.0

Schedule:

- Wednesday – 11 AM – 1 PM (EST/EDT)

SHARES Northeast-FEMA Regions I,II (except PR & VI),III

CT, ME, MA, NH, RI, VT, NJ, NY, DC, DE, MD, PA, VA, WV

Frequencies: Day: Summer 6845.0, Winter 5063.5 | Night: Summer 3347.0, Winter 2281.5 | 2 MHz: 2281.5

Schedule:

- Wednesday - 12 PM – 1 PM (EST/EDT)
- Wednesday – 7 PM – 8 PM (EST/EDT)



United States of America

This certifies that

Curt M Nellis

is authorized to operate
United States Government Radio Station

NNP3EM

for the purposes of the SHARED RESOURCES (SHARES) High Frequency Radio Program as authorized by Title 47 of the Code of Federal Regulations Part 216, and as directed by the SHARES Program Office of the Cybersecurity and Infrastructure Security Agency (CISA), subject to the rules and regulations of the National Telecommunications and Information Administration.

This authorization is non-transferable. This is not an Amateur Radio license.
The holder may not use this certificate in lieu of an FCC amateur radio license.

The SHARES HF radio program exists to maintain the readiness of Government agencies, Critical Infrastructure, and Key Resources to exchange vital information by high frequency radio when normal communications circuits are disrupted or overloaded. Vital information includes, but is not limited to, national security, emergency preparedness, and the protection of life and property.



Jack Lewis

SHARES Program Manager

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SHARES Participants

◦ Federal Agencies

193rd Regimental Training Institute
1st United States Army
44th Medical Command
789th Communications Squadron
89th Communications Squadron
114th Signal Battalion
Air Force MARS
Air Force Medical Evaluation Support Activity
Air Force Reserve
Army MARS
Army Spectrum Management Office
Broadcasting Board of Governors
Centers for Disease Control and Prevention
Central Intelligence Agency
Civil Air Patrol - USAF Auxiliary
Defense Information Services Agency
Defense Logistics Agency
Defense Threat Reduction Agency
Department of Commerce
Department of Defense
Department of Defense Joint Staff
Department of Defense-US Air Force
Department of Energy
Department of Health and Human Services
Department of Homeland Security
Department of Housing and Urban Development
Department of Justice

Department of State
Department of the Interior
Department of Transportation
Department of Treasury
Department of Veteran Affairs
DHS Customs and Border Protection
DHS Immigration and Customs Enforcement
DHS National Coordinating Center for Communications
DHS National Coordinating Center Auxiliary
DHS Office of Emergency Communications
DHS US Citizenship and Immigration Service
District of Columbia National Guard
Directorate of Materiel
Drug Enforcement Agency
Environmental Protection Agency
Executive Office of the President
Federal Aviation Administration
Federal Bureau of Investigation
Federal Communications Commission
Federal Emergency Management Agency
Federal Law Enforcement Training Center
Federal Reserve Board
FEMA Urban Search & Rescue

General Services Administration
Joint Directorate of Military Support
Joint Interoperability Test Command
NASA Ames Research Center
National Aeronautics and Space Administration
National Airborne Operations Center
National Disaster Medical System
National Geospatial Intelligence Agency
National Ground Intelligence Center
National Institute of Standards and Technology
National Oceanic and Atmospheric Administration
National Security Agency
National Telecommunications and Information Administration

National Weather Service
Naval Research Laboratory
Network Enterprise Technology Command/9th ASC
Nuclear Regulatory Commission
NVIS Communications
Space and Naval Warfare Systems Center
Transportation Security Administration
United States Postal Service

US Army Corps of Engineers
US Army Forces Command
US Army Material Command
US Army Reserve Command
US Coast Guard
US Coast Guard Auxiliary
US Department of Agriculture
US Department of Health and Human Services
US Forces Command
US Maritime Administration
US National Guard Bureau
US Northern Command
US Strategic Command
US Transportation Command
USMC Mountain Warfare Training Center





SHARES Participants

- **State Emergency Operation Centers (EOC)**

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, **Virginia**, Washington, West Virginia, Wisconsin, Wyoming



SHARES Participants

- **Critical Infrastructure / Key Resources (CI/KR)**

Advanced HF Solutions

American Red Cross

AT&T

Century Link

Charter Communications

Cincinnati Bell

Claro Puerto Rico Telecomm

Comcast

Cox Communications

CSX Railroad Police

Ericsson

FairPoint Communications

Federal Express

First Energy

Frontier Communications

Harris Communications Systems

Hawaiian Telecom

MITRE Corporation

PA - Commonwealth Health EMS

Seven Seas Cruising Association

Society of Cable Telecommunications Engineers

Softronics

SPRINT

Tennessee Morristown Hamblen Healthcare System

Verizon

Wellmont Health Systems

Windstream Communications

WinLink



SHARES Participants

o Virginia

Alexandria
Arlington

SHARES AUX
SHARES Program Office, AF MARS, USCIS, JDOMS, NG
TSA,

Ashburn
Berryville
Blackstone
Bristow
Bumpass
Burke

CODAN Radio Comm
ARC
NG
SHARES Program Office, AUX
AF MARS
AF MARS

Callao
Chantilly
Charlottesville
Chesapeake
Chesterfield

SHARES AUX
US&R
AF MARS, VDF
AF MARS, SHARES AUX, USCG
AF MARS

Culpeper
Fairfax
Fort Belvoir
Fort Eustis
Fredericksburg
Front Royal

SHARES Program Office, AUX
AF MARS, ARC, DHS
SHARES AUX, USAMC
USTRNSCOM
SHARES AUX, Army MARS, VDF
SHARES AUX, **Warren County EOC**

Hampton
Harrisonburg
Hillsville
King George
Leesburg

SHARES AUX, AF MARS, DVA, NASA
USCIS
SHARES AUX
SHARES AUX
SHARES AUX , AF AUX-CAP

Lincolnia
Lorton
Lovettsville
Luray
Madison Heights
Manassas
Marshall
McKenney
Midlothian
Norfolk
Pennington Gap

Powhatan

Purcellville
Quantico
Reston
Richmond
Salem
Springfield
Stafford
Stephens City
Vint Hill Farms
Vienna
Virginia Beach
Wallops Island
Winchester
Williamsburg

NVIS Comms
DHS-ICE
AF AUX-CAP
SHARES AUX
Army MARS
SHARES AUX, AF MARS
SHARES AUX
SHARES AUX, AF MARS, Army MARS
AF MARS

FBI
SHARES AUX

Powhatan County EOC

Army MARS, SHARES AUX, VDF
FBI
Army MARS, SHARES AUX, Sprint
HUD, AF MARS, CVHC, TSA, DoH, FBI, **VA-EOC**
DVA
DNG, TSA, NGA
MITRE
SHARES AUX, DHS, ECD, ICTAP
SHARES AUX
SHARES AUX
AF MARS, SHARES AUX, USCG
NASA
FBI
AF MARS, Army MARS

Equipment

- Yaseu FT-991A with the MARS modification
- Power Supply
- External Tuner
- NVIS antenna





QUESTIONS ?