Introduction to Santa Fe ARES (SFARES)

December 2020

SFARES

The SFARES Group is comprised of FCC licensed Amateur Radio Operators residing in the general Santa Fe, NM geographical area. Membership is open to any licensed operator interested in volunteer public service.

The SFARES mission is to augment and facilitate emergency communications and related services and activities for Santa Fe City and County Emergency Management.



What is ARES?

ARES is an acronym for Amateur Radio Emergency Service, a public service of the <u>ARRL</u> (American Radio Relay League), the United States' national association of amateur radio operators. Santa Fe ARES is one of many state, county, and city ARES organizations throughout the United States.

ARES is an all volunteer organization which provides auxiliary radio communications without charge to:

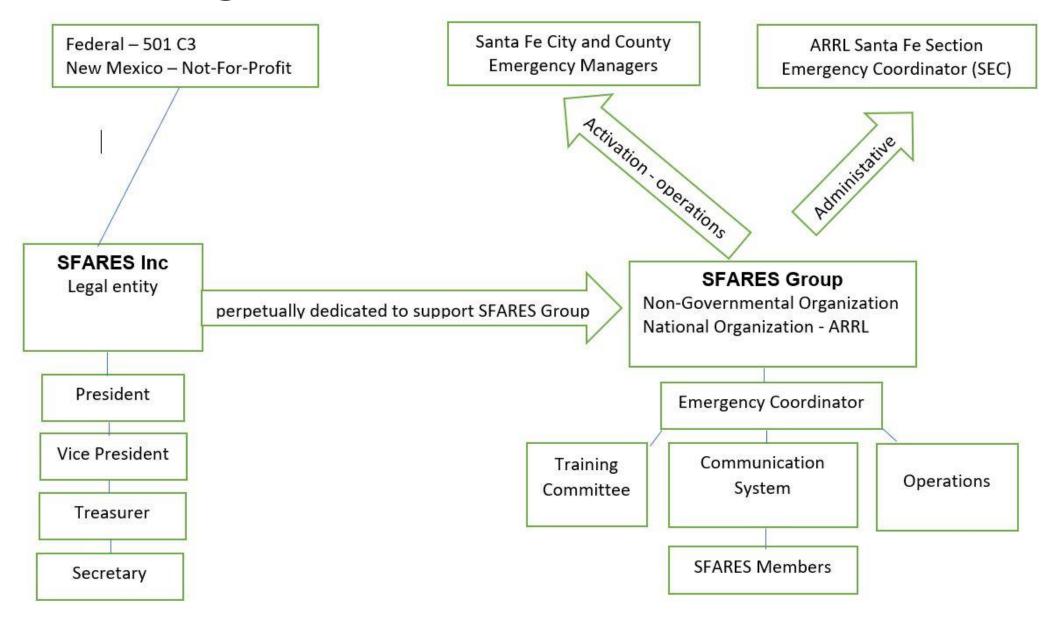
- government agencies during times of emergency, including hurricanes, earthquakes, and forest fires
- other organizations active in emergencies, such as hospitals or the American Red Cross
- other groups running festivals, parades, fund raising events and similar community or public service events.

ARES can provide essential communications when:

- telephone and cellular systems, or an agency's regular radio systems, are disrupted or overloaded
- communications are needed at spots where telephone lines and cell coverage are not possible.

ARES operators can establish communications at any location, with or without commercial electrical service, using special amateur radio equipment and frequencies granted by the United States Federal Communications Commission (FCC).

SFARES Organization



Who does SFARES Report to?

 SFARES supports Santa Fe City and County Emergency Management, specifically the County Emergency Manager, Martin Vigil

Local Emergency Manager Coordination

An important part of the local emergency manager's role is building relationships with all partners in the emergency management system to ensure the whole community is prepared. These partners include:

- · Fire services.
- Police/law enforcement services.
- · Emergency medical programs.
- Public works.
- · Volunteers and voluntary organizations.
- Private and nonprofit sector organizations.
- Other groups involved in emergency activities.
- Citizens.
- Tribal/Territorial



Possible Emergencies in Northern NM

- Wildfire
- Train wreck
- Hazardous material spill (chemicals, nuclear material, etc.)
- Dam breach
- Cyber attack on communications, power and other utility infrastructure

Santa Fe Amateur Radio Emergency Services (SFARES)

- When there is a need, the Santa Fe County Emergency Manager will contact Santa Fe ARES for communications support.
- The Santa Fe County Emergency Manager will contact Evelyn Ward (KE5GLR). Evelyn is the SFARES Emergency Coordinator who is the point of contact for all activations. (If Evelyn is not available, then the County Emergency Manager will contact Alden Oyer (AG5S) or Don Hinsman (N4VIP) to coordinate activities).
- The Emergency Coordinator will utilize the Call Multiplier phone messaging service to inform all members of an activation and how to proceed. Those members responding as available for activation will then be contacted by the Emergency Coordinator and given additional instructions.

Where to Start (Links on SFARES Web Site)

FEMA Emergency Management Institute – Independent Studies (ISP Courses)

Complete certification in the following courses:

- IS 100.c Introduction to the Incident Command System
- IS 200.c Basic Incident Command for Initial Response
- IS 700.b An Introduction to the National Incident Management System
- IS 800.d National Response Framework, An Introduction

Recommended for a better understanding of the role of Amateur Radio during an emergency:

• IS 288.a – The Role of Voluntary Organizations in Emergency Management

American Radio Relay League (ARRL) Course:

Public Service and Emergency Communications Management for Radio Amateurs (EC-016) Course

Ongoing In-Service Training for SFARES Members

Organizational SOP's

Aspects of Emergency Operational Plan

Introduction to Central and Remote SFARES Communication Sites and their capabilities

Operation of various radios

Understanding local and regional Audio VHF, UHF, Simplex, repeaters, and National and Global HF

Understanding local, regional, national and global Digital D-Star, D-Rats, WL2K, VHF, UHF and HF

Learning situational awareness capabilities such as APRS and SARTrak

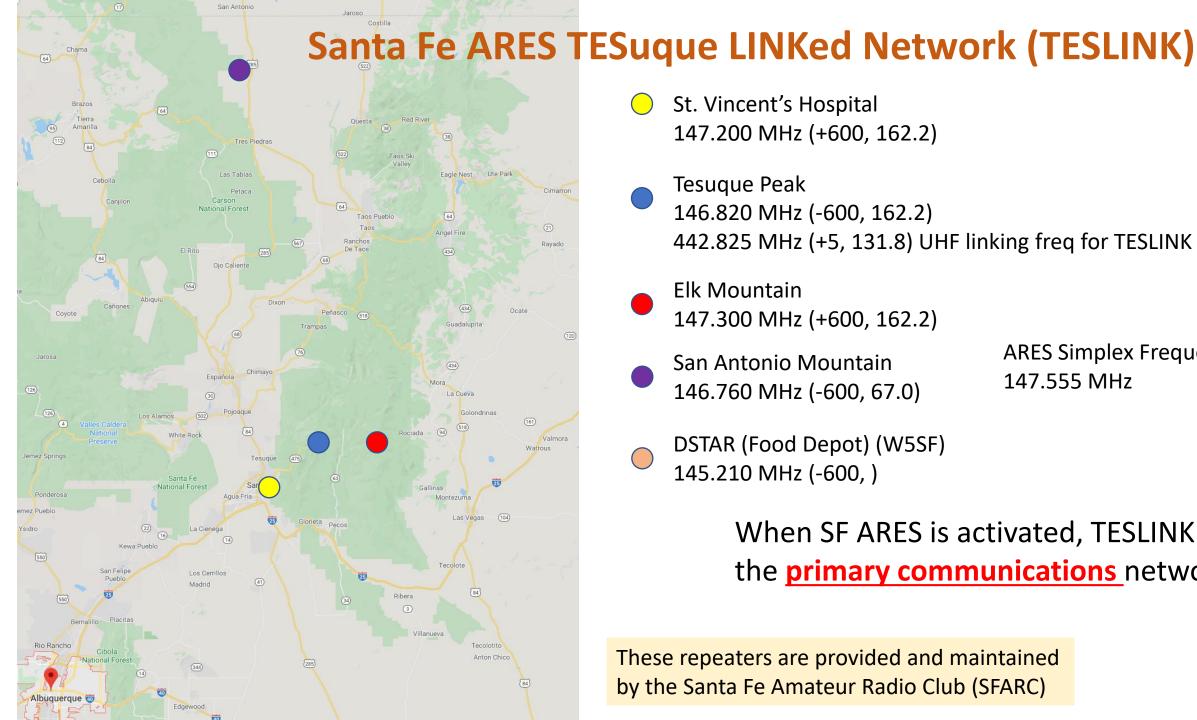
Becoming familiar with various software programs utilized in the communication sites.

An understanding of the SFARES Mesh and its components

Introduction to antennas and other technical communications equipment

SFARES participates in many Public Service Events

- QSO Party
- Field Day
- Chimayo Pilgrimage
- Santa Fe Century Bicycle Ride
- Jemez Mountain Trail Run
- Zozobra
- Other requested Marathons and events as they are organized through out the year



- St. Vincent's Hospital 147.200 MHz (+600, 162.2)
- Tesuque Peak 146.820 MHz (-600, 162.2) 442.825 MHz (+5, 131.8) UHF linking freq for TESLINK
- Elk Mountain 147.300 MHz (+600, 162.2)
- San Antonio Mountain 146.760 MHz (-600, 67.0)

ARES Simplex Frequency 147.555 MHz

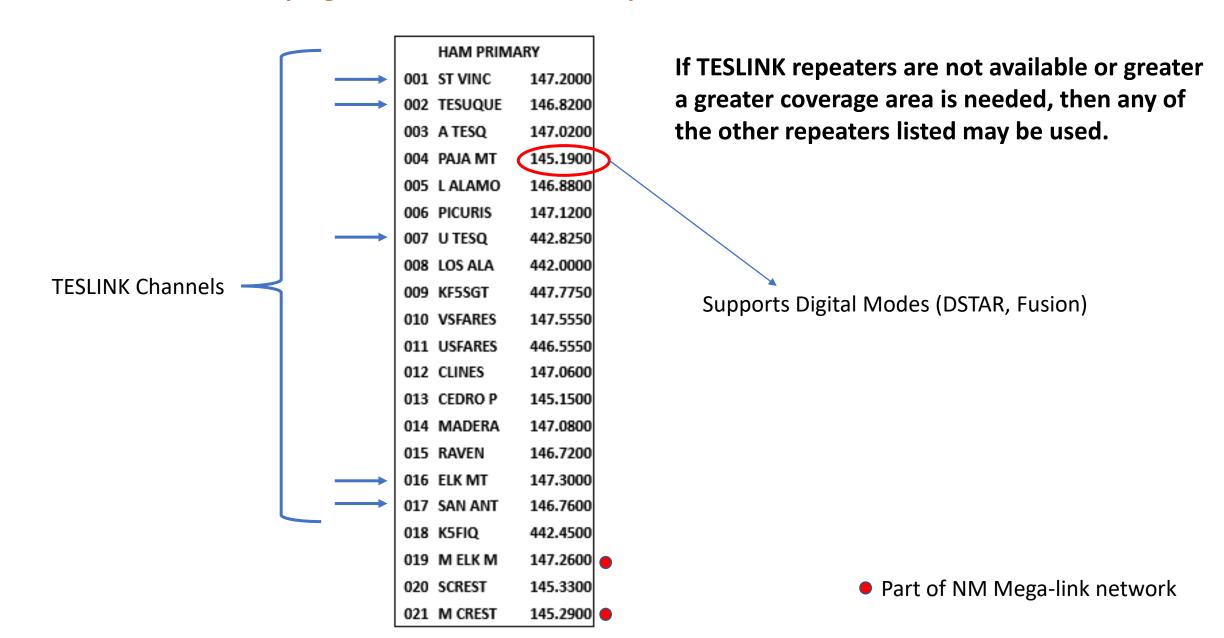
DSTAR (Food Depot) (W5SF) 145.210 MHz (-600,)

> When SF ARES is activated, TESLINK is the **primary communications** network

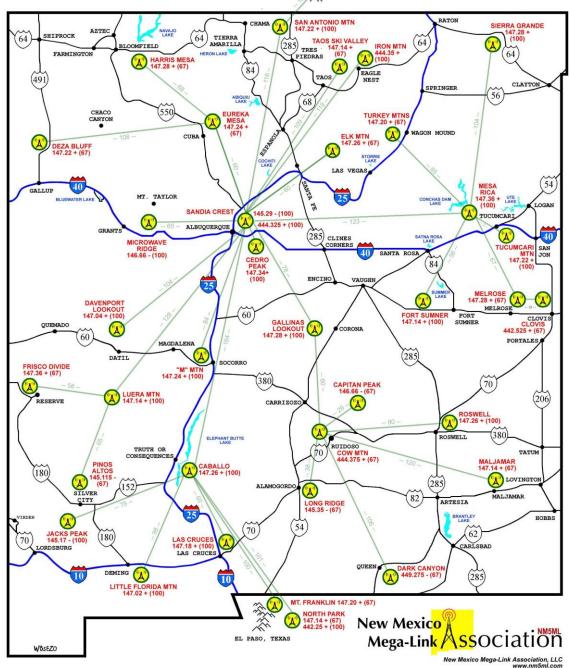
These repeaters are provided and maintained by the Santa Fe Amateur Radio Club (SFARC)

Other Communications Resources

All Santa Fe ARES Radios are programmed with this list of repeaters



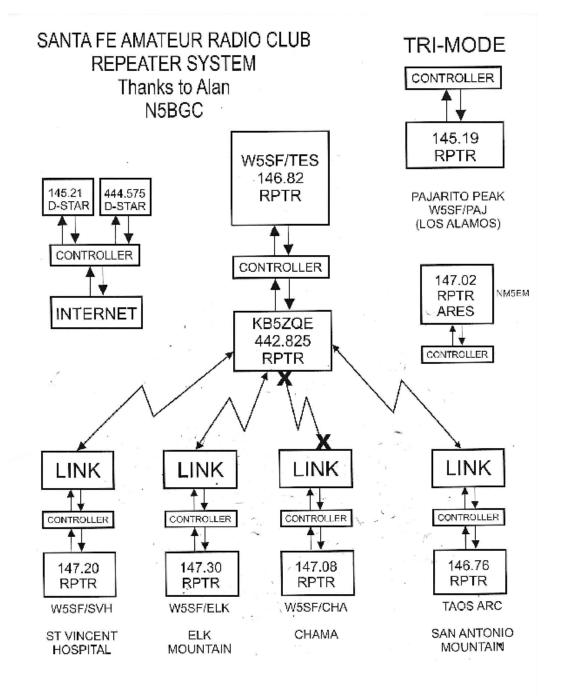




Other Communications Resources

NM Megalink – 37 linked repeaters across NM and West Texas

Northern New Mexico	Elev.	Freq.	Tone	Operational Status
Elk Mountain (N of Pecos)	11,600	147.260+	67	A STATE OF THE STA
Eureka Mesa (E of Cuba)	9,667	147.240+	67	
Harris Mesa (SE of Bloomfield)	6,949	147.280+	67	OF TOTAL
Iron Mountain (NE of Eagle Nest)	11,732	444.350+	100	1-24-65
San Antonio Mountain (N of Tres Piedras)	10,908	147.220+	100	No. of the Name of
Sierra Grande (E of Raton)	8,720	147.280+	100	Stand Alone
Taos Ski Valley (NE of Taos)	11,900	147.140+	67	ALCONOMINATE OF
Turkey Mountain (W of Wagon Mound)	8,480	147.200+	67	and the second
ルグ・アードルグ・アードルグ	1200	100	(4) B	A TOWN
Central New Mexico	Elev.	Freq.	Tone	Operational Status
Cedro Peak (SE of Tijeras)	7,767	147.340+	67	The state of the
Clovis (Downtown)	4.295	442.525+	67	4-24 W
Ft. Sumner (W of Fort Sumner)	4,580	147.140+	100	THE LEWIS TO THE PARTY OF THE P
Gallinas Lookout (W of Corona)		147.280+	100	the man the contract
La Mosca (NE of Grants)	10,991	444.800+	67	L LANGE CHE
Melrose (W of Clovis)		147.280+	67	14 7 3 A 3 C 3 14
Mesa Rica (S of Conchas Dam Lake)	5 390	147.360+	100	OF -COMPTON
Microwave Ridge (E of Grants)		146.660-	100	A SURFERENCE
Sandia Crest (East of Albuquerque)		145.290-	100	100 11 10 W 1
Sandia Crest (East of Albuquerque)	10,680		100	18 4 ESIAS 11
Tucumcari Mountain (S of Tucumcari)	4,975	147.220+	100	TO POST OF PRICE
racamean mountain (o or racamean)	1,010	25. 4.	100	K. 4/17 S/38
Southern New Mexico	Elev.	Freq.	Tone	Operational Status
Buck Mountain (NW of Ruidoso)	10,752		67	グラターエスト
Caballo (SE of Truth or Consequences)	7,550		100	100000
Capitan Peak (NW of Roswell)	10,450		67	Mary Mary
Las Cruces (E of Las Cruces)	5,270		100	ACCOUNT OF THE PARTY OF
Little Florida Mountain (SE of Deming)		147.020+	100	
Long Ridge (E of Alamogordo)	7.782		67	THE PROPERTY
"M" Mountain (W of Socorro)	7,201	147.240+	100	18 9 18 20
Maljamar (NW of Hobbs)		147.140+	67	7-14-15-15
Roswell (E of Roswell)	3,971	147.260+	100	VALUE OF THE PARTY
The state of the state of the	F-728	P 1527 F	128	The Think As
Western New Mexico	Elev.	Freq.	Tone	Operational Status
Davenport Lookout (N of Datil)	9,300		100	THE WAR COUNTY
Deza Bluff (N of Gallup)		147.220+	67	A TO STA
Frisco Divide (WNW of Reserve)		147.360+	67	C. M. Land
Jacks Peak (NE of Lordsburg)		145.170-	100	1 - 23 - 23 - 37 1
Luera Mountain (S of Datil)	9,420		100	Mary Mary
	8,163	145.115-	67	182 8 148
Pinos Altos(N of Silver City)	The state of the s		197 France	The way the same
Pinos Altos(N of Silver City)	300	THE PERSON NAMED IN		The same of the sa
Pinos Altos(N of Silver City) Western Texas	Elev.	Freq.	Tone	Operational Status
	Elev. 5,470	147.200+	67	Operational Status
Western Texas		147.200+		Operational Status



Appendix

- Regular meetings and radio nets
 - 2nd Saturday of the month meetings (via Zoom during pandemic)
 - Tuesday before the 2nd Saturday D-RATS net, 7:30pm (via Internet)
 - Tuesday before the 2nd Saturday radio net, 8:00pm on Teslink
 - First Sunday State-wide emergency services net, 3.939 MHz, LSB
 - 7:30pm Mountain Daylight Time, or
 - 5:00pm Mountain Standard Time