Northeastern Nevada Regional Tactical Interoperable Communications Plan (RTICP)

January 2010

Version 2.4 - 2010

Tactical Interoperable Communications Plan
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Record of Change

Change No.	Description	Change Date	Approved By
Version 1.0	Initial Draft Version	April 2009	NCSC
Version 2.0	Completed version	December 2009	NA
Version 2.1	With Updates from Agencies	December 2009	NA
Version 2.2	Updated by Stakeholders	December 2009	NA
Version 2.3	Reformatted tables	January 2010	NA
Version 2.4	Reformatted tables	January 2010	NCSC

This Regional Tactical Interoperable Communications Plan (RTICP) is subject to information and/or equipment updates and changes. The use of this Record of Change helps manage RTICP modifications throughout the life of this document. All attempts have been made to ensure the accuracy of the information within this RTICP as of the initial distribution date. Any subsequent adjustments should be logged and coordinated with user agencies within this Northeast Nevada Region.

Executive Overview

This document establishes a Regional Tactical Interoperable Communications Plan (RTICP) for the Northeast Nevada Region, inclusive of US FEMA Region 9.

The RTICP is intended to document the interoperable communications resources available within the designated area, who controls each resource, and what rules of use or operational procedures exist for the activation and deactivation of each resource. The idea is to consolidate all this information into one document and make it available to all users.

While the Nevada Statewide Communications Interoperability Plan (SCIP) is the vision for interoperable communications, the TICP can be thought of as a toolbox, as it contains the tools or interoperability connections that can be applied to an incident as needed.

See Appendix I for a list of resources available to assist in preparing/updating the RTICP.

In Nevada, three TICPs were developed, one for the Northwest, one for the Northeast and one for the Las Vegas Urban Area and the Southern portion of the State. The TICP for each region is applicable to all responders and all incidents that may occur in the region.

Determining hard and fast boundary lines was a challenge because each region contains overlapping boundaries of each County and the State agencies. The jurisdictions of the State agencies, like NDOT and NHP, do not follow County boundaries, and as a result the regions should not be thought of as hard boundaries, but rather general geographical areas where frequent interoperability coordination is needed.

The Northeast RTICP includes Elko, Humboldt, Pershing, Lander, Eureka, and White Pine Counties. This region overlaps with the Nevada Highway Patrol Central Command and NDOT District 3.

The Northwest RTICP includes Washoe, Storey, Carson City, Douglas, Lyon, Churchill and Mineral Counties. This area overlaps with the Nevada Highway Patrol North Command and NDOT District 2.

The Southern Region includes the Las Vegas Urban Area and Clark, Lincoln, Nye and Esmeralda Counties. This area overlaps with the Nevada Highway Patrol Southern Command and NDOT District 1.

The intent of each RTICP is to provide information on the interoperability connections available in each region that can be used when multiple agencies respond to the same incident. The RTICP documents the Federal, State and Local guidelines that must be followed when using an interoperability resource. In some cases because of the complexity of the resources, Interoperability SOPs have been developed, using the Nevada SOP Manual that further defines how the resource can be used.

Finally, a Field Operations Guide, or FOG will be made available to the each region after April of 2010 that contains a quick reference guide to the frequencies, repeater locations, dispatch center locations and other key information for each region needed by those responding to an incident.

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1 Northeastern Nevada Region Information

Nevada has diverse a climate, due partly to variations in latitude and elevation. Winters are coldest in the northeast, with an average January temperature of ~23°F at Elko. The July average is ~70°F at Elko.

Nevada is the driest U.S. State, with an average annual precipitation (rain and melted snow) of ~9 inches in Elko. Much of the precipitation falls as winter snow, with the spring thaw contributing to streams and creeks flowing from the mountains.

Interstate-80 east-west traverses the region (see Figure 1 on the following page). US 93 and US 95 are major north-south transportation corridors for the region. The Union Pacific Railway parallels the I-80 corridor. A rail port located 7 miles east of the City of Elko is currently being constructed to function as a trans-loading facility that is accessible to the region. This facility was completed in 2009 with the capability of offloading major equipment and supplies. The facility will be accessed from I-80 via Exit 310.

The region is also home to the majority of gold mining in North America, transporting various chemicals, explosives, blasting agents. Mines do have their own emergency response teams for hazardous materials or other incidents working cooperatively with civil agencies.

The Elko Regional Airport is accessible for transport needs. The length of the runway is approximately 7200 feet and has the capability for military transport landings.

About 80% of Nevada's land is managed by the federal government agencies such as the Bureau of Land Management (BLM), US Forest Service, and Department of Defense (DoD). The central portion of the State contains the nation's nuclear testing grounds, and a live-weapons range used by various branches of the US military for aerial and air-to-ground combat training.

Table 1 Northeast Nevada Region County Statistics

County	2000 Population	2005 Population	2024 Population Projection	Square Miles	County Seat
Elko	45,291	47,071	48,907	17,182	Elko
Eureka	1,651	1,628	1,606	4,176	Eureka
Humboldt	16,106	17,763	19,592	9,648	Winnemucca
Lander	5,794	5,086	4,466	5,494	Battle Mountain
Pershing	6,693	6,291	5,913	6,009	Lovelock
White Pine	9,181	9,199	9,382	8,877	Ely

The Northeast Nevada region covered by this plan consists of Elko, Humboldt, Pershing, Lander, Eureka, and White Pine Counties and an area roughly defined as District 3 by the Nevada Department of Transportation's region classifications and by the area of the Central Command of the Nevada Highway Patrol Central Command as illustrated in Figure 1 below.

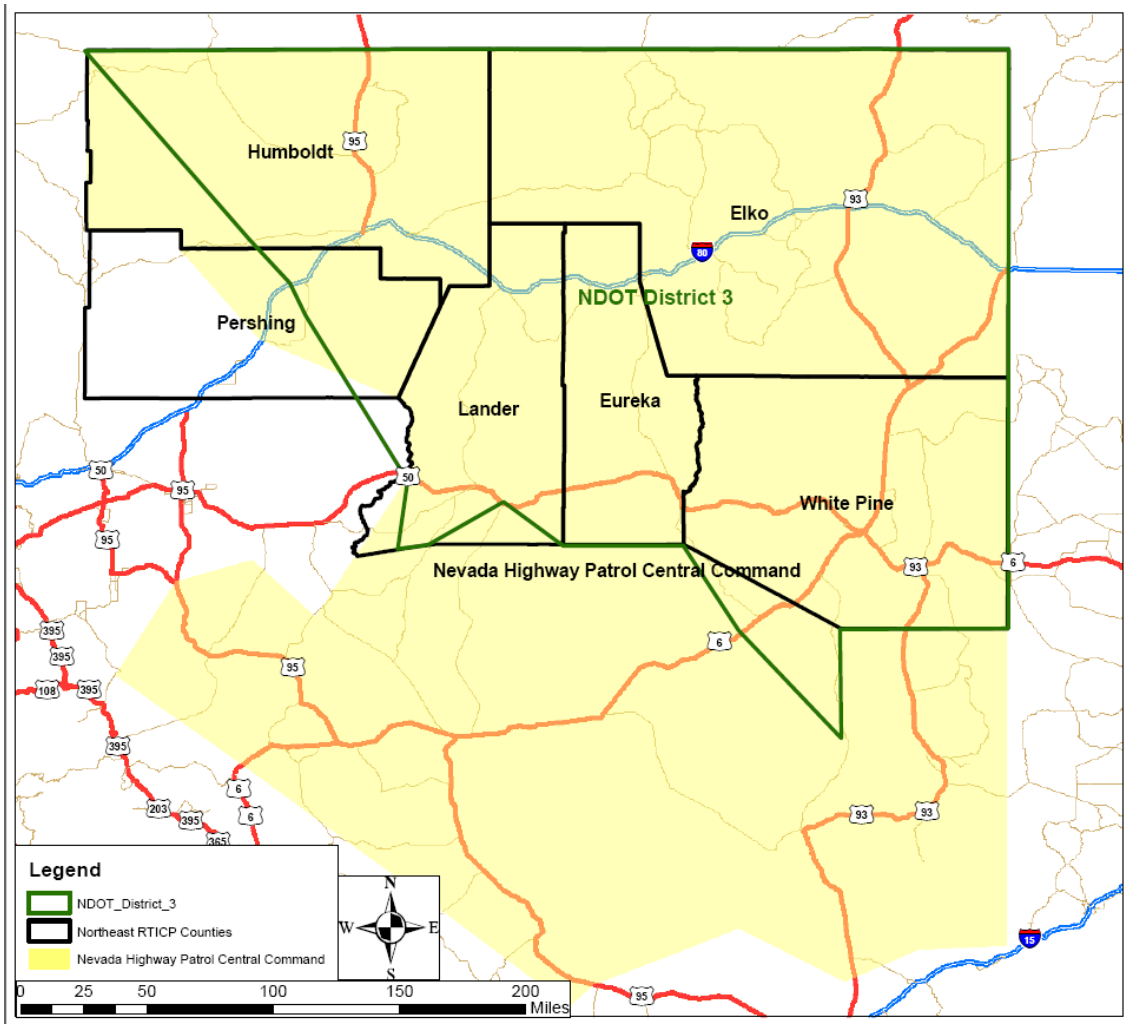

Figure 1 Northeastern Nevada Regional Map

Although there are currently four major trunked radio systems in Nevada: Nevada Shared Radio System (NSRS), Las Vegas Metro, Southern Nevada Area Communications Council (SNACC), and the Washoe County Regional Communications System's (WCRCS), the Northeast portion of Nevada has interoperable connectivity only with the NSRS.

Elko County assets serve as the core system for neighboring rural entities. Elko County is the third largest population center in the state of Nevada. It is the 4th largest county in our nation and borders the states of Idaho and Utah. Extensive upgrades are currently being assessed in order to provide connectivity to other rural entities.

Although there is operational radio interoperability among the agencies of a given core radio system, there is limited operational radio interoperability between all of these Northeastern Nevada systems. Because of limited up-to-date infrastructure, Elko County and other rural systems lack the ability to make connections to the core systems at this time. This limitation provides very limited interoperability between various agencies of one system and agencies of the other systems while responding to major incidents requiring significant first responder resources such as Fire, Police (city, county and state), Mining Company Emergency Response and Security, Tribal Police, Casino Security, Emergency Medical, Federal and multiple Regional Dispatch Centers.

1.1 Participating Jurisdictions/Agencies/Disciplines

This RTICP has been created for the Northeast Nevada Region. The plan is intended for use by first responders and may be used by governmental or non-governmental organizations and personnel requiring communications or coordination during an incident or planned event.

The jurisdictions, agencies, and disciplines represented in the TICP are listed in Table 2. Additional contact information for each agency is listed in Appendix A.

Table 2 Jurisdictions, Agencies, and Disciplines Represented in the TICP

Jurisdiction	Agency	Discipline
Elko County	Elko Central Dispatch Authority	Communications
	Elko County Sheriff's Office	Law
	Elko County Public Works	Public Works
	Elko County Ambulance	Medical
	Summit Air Ambulance	Medical
	Elko County School District	Education
City of Elko	City of Elko Public Works	Public Works
	City of Elko Police	Law
	City of Elko Fire	Fire
City of Carlin	City of Carlin Public Works	Public Works
City of Wells	City of Wells Public Works	Public Works
City of Carlin	Carlin Police Department	Law
	Carlin Fire and Ambulance	Fire
City of Wells	Wells Fire and Ambulance	Fire
	Jackpot Fire and Ambulance	Fire
City of West Wendover	West Wendover Police	Law
	West Wendover Fire	Fire
Eureka County	Eureka County Sheriff	Law
	Eureka County Fire and EMS	Fire
Humboldt County	Humboldt County Sheriff	Law
	Winnemucca Police Department	Law
	Humboldt County EMS and Ambulance	EMS

Jurisdiction	Agency	Discipline
	Humboldt County Fire	Fire
Lander County	Lander County Sheriff	Governance
	Lander County Fire and EMS	Fire
	Western Shoshone Department of Public Safety	Law / Fire
Pershing County	Pershing County Sheriff's Office	Law
	Lovelock Police Department	Law
	Pershing County Fire Department	Fire and EMS
	Lovelock Ambulance Service	EMS
	Pershing County Public Works	Utilities
White Pine County	White Pine County Sheriff	Law
	White Pine Fire District	Fire
Tribal Region	Elko Tribal	Law
Regional	Local FBI	Law
Regional	BLM, US Forest Service	Law
Regional	Central Nevada Interagency Dispatch Center (CNIDC)	Fire
Regional	BLM Winnemucca and Battle Mt. Districts	BLM
Regional	USFS – Santa Rosa, Tonopah, and Austin Ranger Districts	USFS
Regional	Ely Interagency Communications Center (EICC)	Fire
Regional	Ely District BLM	BLM
Regional	Ely Ranger District -USFS	USFS
Regional	National Park Service – Great Basin National Park	National Parks
Regional	Elko Interagency Dispatch Center	Fire and Wildland Fire
Regional	Nevada Division of Forestry (NDF) Northern Region	Fire
Regional	BLM Elko District	Wildland Fire
Regional	US Forestry Service – Ruby Mt. Jarbidge MT City Ranger Districts	Wildland Fire
Regional	BIA Eastern Nevada Agency	Wildland Fire
Regional	US Fish and Wildlife Service – Ruby Lake National Wildlife Refuge	Wildland Fire
Tribal Region	Duck Valley Sho-Pai Tribe	Wildland Fire
	Duck Valley Tribal Dispatch	Communications
	Duck Valley Tribal Fire	Fire
	Duck Valley Tribal Police	Law
Nevada Department of Transportation (NDOT) Dispatch	NDOT	Communications, Public Works
South Central Idaho Dispatch Center	BLM, BIA, USFS, Wildland Fire Response for the Jarbidge Strip, BLM land in Nevada North of Jarbidge, NY, North of USFS ground	BLM

Jurisdiction	Agency	Discipline
Regional	Nevada Highway Patrol (NHP) Central Command , Department of Public Safety (DPS)	Communications, Law
Regional	Division of Parole and Probation	Law
Regional	Division of State Parks	Law
Regional	Department of Agriculture	Law
Regional	Stare Fire Marshal's Office	Law
Regional	Nevada Division of Investigations	Law
Regional	Department of Corrections	Prison
Regional	Division of Juvenile Parole and Probation	Law
Regional	Great Basin College (GBC)/	Law
National	National Weather Service	
State	Nevada National Guard	
State	Nevada Division of Forestry	Public Works
State	Nevada Office of Homeland Security	Emergency Management
Federal	Bureau of Indian Affairs	Governance
Federal	National Weather Service	Federal

1.1.1 Nongovernmental Agencies Represented in the RTICP

- ARES/RACES
- Frontier Communications (Infrastructure connectivity)
- Wells Rural Electric Company (Utility)
- NVEnergy (Nevada Shared Radio System (NSRS) partner, utility)
- Barrick/Newmont Gold (Remote population center, radio communication and response capabilities, resources in heavy equipment and expertise)
- American Red Cross
- Sierra Electronics (Communications support)
- Union Pacific Railroad (Transportation)
- Nevada Hospital Association (NHA)
- KT Services Coach America (Transportation resource)
- Wendover Ambulance

1.1.2 Tribal Entities Represented in the RTICP

See Appendix A, Section A.5 for the Great Basin Tribes points of contact.

- Intertribal Council of Nevada (ITCN) [ITCN Chiefs of Police Association]
    - Fort McDermitt Tribal Council
    - Ely Shoshone Tribal Council
    - Goshute Tribal Council
    - Temoke Tribal Police

- Southern Bands Indian Tribes

1.1.3 Other TICP(s) in the State

See Appendix I for additional resource information on the following plans:

- Las Vegas Urban Area TICP
- Northwest Nevada Region TICP

1.2 RTICP Point of Contact

Primary:

Agency Name:	Nevada Division of Emergency Management and Homeland Security
POC Name:	Pete Reinschmidt
Title:	Emergency Operations Manager
Office Phone:	(775) 687-0305
E-Mail:	preinschmidt@dps.state.nv.us

Alternate:

Agency Name:	Nevada Communications Steering Committee
Title:	Chairman of NCSC
Office Phone:	(775) 684-5678
E-Mail:	

2nd Alternate:

Agency Name:	Nevada Communications Steering Committee
POC Name:	Dale Lotspeich
Title:	Chairman of NCSC; Sheriff, Elko County Sheriff's Office
Office Phone:	(775) 777-2501
E-Mail:	elkosheriff@elkocountynv.net

2 Governance

2.1 Overview

The Northeastern Nevada Regional TICP addresses interoperable communications equipment and planning for the region. Each agency, discipline, and jurisdiction participating in this plan is unique regarding their own interoperable communication needs and capabilities, proximity to one another, population, and shared incident/event responsibilities allowing them to develop a single, consolidated regional TICP rather than several individual, potentially incompatible plans.

The TICP, therefore, consolidates information across agencies, disciplines, and jurisdictions by documenting regional communications capabilities in order to provide a usable and accurate regional tactical incident response tool.

This TICP was developed under the authority of the entities represented by the participants in the Northeastern Nevada Region RTICP Workshop held on April 27 and 28, 2009 at the Elko Interagency Dispatch Center. Representatives from the following public safety, public service disciplines, and NGOs were included in the planning:

- Communications
- Critical Infrastructure/Utilities
- Emergency Management
- Emergency Medical Services
- Fire/Rescue
- Information Technology (IT)
- Investigations and Intelligence
- Law Enforcement
- Nongovernmental Organizations (NGOs)
- Public Works
- National Weather Service
- Tribal

2.2 Governing Body

Public Safety Interoperable Communications in Nevada are governed by the Nevada Commission on Homeland Security (NCHS) through the NCSC. The NCSC is comprised of voting entity representatives in addition to the fixed committee positions of Chairman and Vice Chairman. This Regional TICP was developed under the direction of the NCSC. The NCSC Chairman formed a regional ad-hoc committee who provide input to create the original Regional TICP. Since its original creation, the document has been maintained and updated by agencies represented in the Regional TICP under the direction of the NCSC.

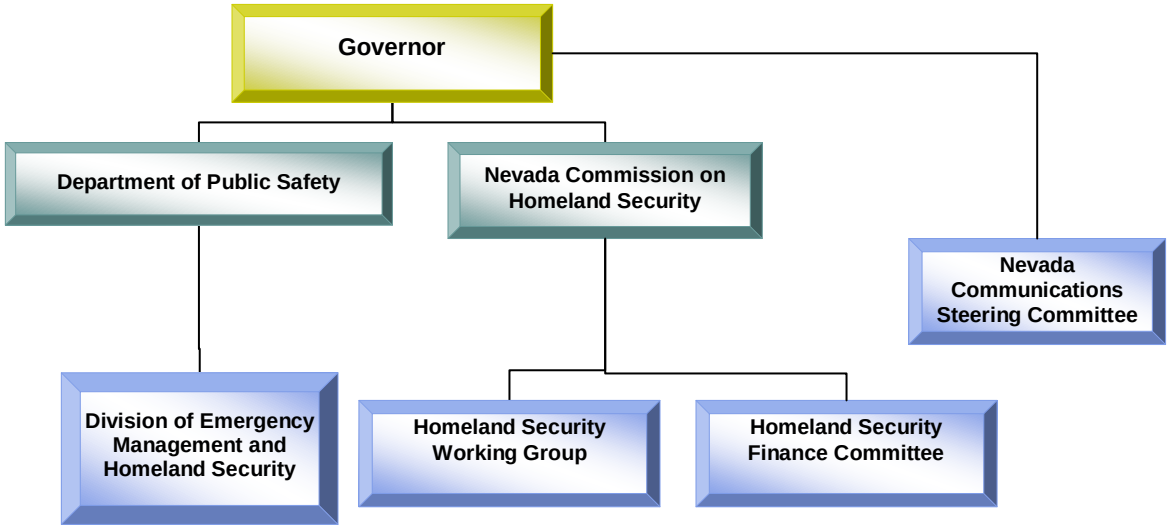

Figure 2 Northeastern Nevada Region Governance Organization Chart

2.3 Membership

Appendix A provides POC information for members of the governing body and its subcommittees.

2.4 Responsibilities of the NCSC

The NCSC will:

- Maintain and update the RTICP at regular intervals, or as critical updated information is identified.
- Disseminate updated plans to all participating agencies.
- Establish training requirements in support of the RTICP.
- Promote interoperable communications capabilities through trained communications personnel.
- Initiate Memoranda of Understanding (MOUs) and Agreements for interoperable communications.
- Promote regular interoperable equipment/solutions testing; assist entities with test evaluations, and dissemination of the results.
- Re-evaluate regional requirements as technology evolves and circumstances dictate.
- Review communications related SOPs created by the included entities, to preclude conflicts or non-compliance with current standards or initiatives.
- Establish and manage the interoperable communications ad-hoc user groups.
- Develop and recommend final solutions and implementations.
- Recommend chains of command for interoperable communications including Communications Unit Leaders (COML).
- Evaluate utilization of interoperable communications systems and/or equipment across the State on a regular basis to ensure that it is being used on a daily basis.
- Coordinate with SOP working group to ensure RTICP objectives and concepts are incorporated into SOPs.

2.5 Meeting Schedule

Unless otherwise scheduled, the Nevada Communications Steering Committee will have bi-monthly meetings and the RTICP will be a standing agenda item with reports/updates as needed. The NCSC follows the Nevada Open Meeting law.

2.6 RTICP Maintenance and Update

The NCSC has the responsibility to review this document as part of the annual SCIP review/update. Requests for modifications or additions to this document should be submitted to any NCSC member or RTICP POC for distribution to the NCSC. Updates to this document can be recommended by any of the participating agencies. Agencies participating in this plan will be formally notified within 90 days of any approved modifications or additions to this RTICP.

2.7 Agency Responsibilities and Rights

Agencies will retain the following rights and responsibilities:

- Agencies are responsible for considering and, if agreeing to, complying with MOUs and Agreements developed by the NCSC in coordination with their respective jurisdictions.
- Authorized representatives of agencies participating in this plan have the authority to request the use of equipment, including systems and mobile assets, in accordance with Standard Operating Procedures (SOPs).

- Where applicable, agencies will be responsible for consistently maintaining, testing, and exercising connectivity to interoperable communications.
- Agencies retain the right to decide when and where to participate in interoperable communications. For example, agencies will retain the right to accept or decline a patch to a gateway system to provide interoperable communications during an incident.
- If an agency is unable to supply a communications asset that has been requested, they should notify the Incident COML.

2.8 Prioritization and Shared Use of Regional Interoperability Assets

In response to events or incidents which cross over political jurisdictions, there will potentially be competing demands and priorities for interoperable communications assets.

Until such time as Incident Command is established, the lead agency designee (i.e., communications supervisor/command personnel), in cooperation with assisting agencies, will have the authority to designate the use of interoperable assets. Once Incident Command has been established, Command Staff or Communication Unit Leaders (when designated) direct the further coordination and delegation of the interoperable communications assets assigned to the event or incident in question.

Agencies should judiciously activate needed interoperable assets so as to both effectively respond to the event and/or incident and also minimize any negative impact on surrounding agencies or jurisdictions. Specifically, interoperable communications should be attempted with the following order of operations in mind (subject to variability based on the agencies involved and the nature of the event/incident):

1. Leverage face-to-face communications wherever appropriate. For example, the co-location of all Command and General Staff at the incident command post (ICP) provides the best direct communications and reduces the demand on interoperability resources.
2. Employ local communications assets until such time as either those assets become taxed or inadequate based on the nature and/or scope of the incident.
3. If response agencies are users of a shared system, utilize that shared system to establish interoperable communications.
4. If response agencies operate on disparate systems, utilize shared or mutual aid channels to establish interoperable communications.
5. If responding agencies do not share systems or channels, utilize a gateway solution to establish interoperable communications.
6. Where interoperable communications cannot otherwise be established between responding agencies, utilize swap or cache radios to establish operable communications for responders.
7. If no other method of interoperability can be established, relay communications through staff members.

When the same resources are requested for two or more incidents, resource assignments should be based on the priority levels listed below:

1. Disasters, large scale incidents, or extreme emergencies requiring mutual aid or interagency communications.
2. Incidents where imminent danger exists to life or property.
3. Incidents requiring the response of multiple agencies.
4. Pre-planned events requiring mutual aid or interagency communications.
5. Incidents involving a single agency where supplemental communications are needed for agency use.
6. Drills, tests and exercises.

In the event of multiple simultaneous incidents within the same priority level, the resources should be allocated with the following priorities in mind:

1. Incidents with the greatest level of exigency (e.g., greater threat to life or property, more immediate need, etc.) have priority over less exigent incidents.
2. Agencies with single/limited interoperable options have priority use of those options over agencies with multiple interoperable options.
3. When at all possible, agencies already using an interoperable asset during an event should not be redirected to another resource.

Reference to applicable policy documents, governing documents, MOUs, and sharing agreements can be found in Appendix H.

3 Interoperability Equipment, Policies, and Procedures

This section describes all interoperable communications equipment and their associated policies and procedures in the Northeast Nevada Region. In an effort to reduce the amount of information that is repeated in each section, we have consolidated a list of regional rules of use that apply in general to all interoperability assets in the region. These procedures also serve as a baseline for those agencies who are developing their own interoperability and operability resources.

All Assets Policies and Procedures

Use the following procedures when requesting, using, or discontinuing the use of shared communication systems:

- When an individual responder needs to interoperate with other agencies on their same shared system, the responder will notify their dispatch center. The dispatcher can then identify and designate an appropriate talkgroup. Note that in cases where no dispatcher intervention is required, responders still notify dispatch that they are switching to a shared talkgroup to maintain responder safety.
- Notify dispatch when the interoperability talkgroups are no longer required and announce the return to normal operations channels.
- For extended incidents:

    - The lead agency dispatcher notifies the Incident COML that interoperability talkgroups are in use.
    - Each agency's dispatch center tells additional en-route responders what interoperability talkgroups are in use for the incident.
    - The Incident COML determines when the interoperability talkgroups are no longer required and notifies the appropriate dispatch center.

All Assets System Rules of Use

- **National Incident Management System** – Use an Incident Command System (ICS) compliant with the National Incident Management System (NIMS) when using any regional interoperability resource.
- **Plain Language** – All interoperable communications during multi-agency, multi-discipline incidents will be in plain language. Avoid using radio codes, acronyms, and abbreviations as they may cause confusion between agencies. Ensure that all verbal requests for assistance or backup specify the reason for the request.
- **Unit Identification** – If agencies are using a common talkgroup in an incident, NIMS ICS protocols apply: Announce your home agency prior to announcing your unit identifier during interoperable communication situations, i.e., NHP 9396, NDOT 3011.

All Assets Problem ID and Resolution

During an incident without a Communications Unit:

- Follow agency protocols.

During an incident with a Communications Unit:

- During activation, report shared system problems to the Communications Technician (COMT) or COML/designee assigned to the incident/event, who will follow established agency procedures to resolve the problem.

Following an incident, the following general problem ID and resolution processes apply to all shared systems:

- Agencies using a shared system will report any problems with that system directly to the COML or their designee. The COML or their designee will ensure an effective resolution to all reported shared system problems.

3.1 Shared Trunked System

Definition of a Shared System

"Shared Trunked System" refers to a single trunked radio system used to provide service to several public safety or public service agencies. The table below lists all radio systems shared by more than one public safety or service agency operating in the Northeast Nevada Region. Details on each system are provided in Appendix B.

Note: that intra-system "shared channels" refer to common frequencies/talkgroups established and programmed into radios to provide interoperable communications among agencies using the ***same*** shared radio system. "Channel," in this context, refers to the name of a common frequency/talkgroup visually displayed on a user's radio.

Table 3 Northeastern Nevada Region Shared System(s)

Radio System Name	Make / Model	Type	Frequency Band	Owning Agency	Service Area
NSRS	Tyco Electronics	EDACS	800 MHz	Department of Transportation	Statewide

NSRS Shared System Technology Overview

The NCSC has identified one (1) shared communication system that provides service to the Northeast Nevada Region. This shared system is owned and managed by Nevada Department of Transportation (NDOT), NV Energy, and University of Nevada Las Vegas. This shared system covers the State of Nevada. The number of channels is an estimate. Channels are distributed among the 90 sites across Nevada. This system covers all major highways in Nevada. General interoperable communications rules of use, policies, and procedures that apply across these systems are detailed below.

NSRS Shared System Problem ID and Resolution

During an incident:

- During activation, report shared system problems to the NDOT District 3 Communications Supervisor or Technician, or COML/designee assigned to the incident/event, who will follow established agency procedures to resolve the problem.

Following an incident, the following general problem ID and resolution processes apply to all shared systems:

- Agencies using a shared system will report any problems with that system directly to the NDOT District 3 Communications Supervisor or Technician, or COML/designee who will ensure an effective resolution of the reported shared system problem(s).

NSRS Shared System Interoperability Talkgroups

Shared system "Interoperability Talkgroups" refer to common talkgroups established and programmed into radios to provide interoperable communications among agencies using the ***same*** shared radio system. "Talkgroup," in this context, refers to the name of a common frequency/talkgroup visually displayed on a user's radio.

The NSRS has identified shared communication talkgroups that provide service to the Northeast Nevada Region. In addition the specific In addition to the "All Assets Policies and Procedures" listed above, the following policy also applies.

- Verbal approval by authorized agency representatives is required for talkgroup use to create interoperability.

The shared interoperable communication talkgroups available within the region are listed in Appendix B.

3.2 Conventional Shared Systems

"Conventional Shared System" refers to a single conventional radio system used to provide service to several public safety or public service agencies. In the case of the radio systems currently in place for Elko, Eureka, Humboldt, Lander, Pershing and White Pine County these systems are shared by many users throughout each County. In most cases, they have stand alone repeaters at each site. Radio users must select the correct repeater site based on their location in the county using a unique PL Tone. In most cases, the radio sites are linked back to the communication center via microwave and the dispatcher has the ability to select any of the repeater sites in their respective county. Details on each system are provided in each section below and in Appendix C.

Table 4 Conventional Shared System(s)

Radio System Name	Make / Model	Type	Frequency Band	Owning Agency	Service Area

Elko County VHF Public Safety	Motorola	Conventional	VHF	Elko County Sheriff's Office	Elko County
Eureka County VHF Public Safety		Conventional	VHF	Eureka County	Eureka County
Humboldt County VHF Public Safety		Conventional	VHF	Humboldt County	Humboldt County
Lander VHF Public Safety		Conventional	VHF	Lander County	Lander County
Pershing County VHF		Conventional	VHF	Pershing County	Pershing County
White Pine County VHF		Conventional	VHF	White Pine County	White Pine County
Nevada Division of Forestry (NDF) VHF	Mixed	Conventional	VHF	NDF	Regional
Nevada Department of Wildlife (NDOW) VHF	Mixed	Conventional	VHF	NDOW	Statewide
Nevada Division of State Parks VHF	Mixed	Conventional	VHF	NDSP	Statewide

Conventional Shared Policies and Procedures

The policies, procedures, rules of use and conventional shared system problem ID and resolution are the same as "All Assets Policies and Procedures", "All Assets Rules of Use", and "All Assets Problem ID and Resolution" listed in Section 3.

3.2.1 Elko County VHF Conventional Shared System

Elko County Conventional Shared System Technology Overview

The Elko County Conventional system is primarily used by the Sheriff. The System is an 8 site VHF system on a single repeated channel with different PL tones for each site. The sites are connected via microwave and are linked back to Central Dispatch. This system also supports the City of Carlin PD, and Elko County Juvenile Probation.

Elko County Ambulance has a single VHF repeater on Twin West and they use an aging UHF system that is no longer meeting the agencies needs. They will be moving to the Nevada Shared Radio System (NSRS) in early 2010. Elko County Fire uses the Nevada Division of Forestry VHF system.

Elko County Highway Department has a single VHF repeater on Elko Mtn. When traveling in areas outside the Elko Mtn coverage area they often use the Sheriff's VHF system. The Highway Department repeater on Elko Mtn is shared with Elko County Public Works and they also use the Sheriff's system when outside the Elko Mtn coverage area.

The City of Elko and the City of West Wendover have their own VHF repeated communication systems. The channels allocated for the Elko County VHF system are listed in Appendix C.

3.2.2 Eureka County VHF Conventional Shared System

Eureka County Conventional Shared System Technology Overview

The Eureka County VHF system is primarily used by the Eureka County Sheriff's Office. The system has three mountain top repeater sites: Prospect Peak, Tenabo and Mary's Mtn. PL tones are used to select the appropriate mountain top repeater. The Sheriff has an additional car-to-car frequency.

Fire is dispatched out of three dispatch centers: Eureka County Sheriff's Office Dispatch, NDF Dispatch in Elko, and BLM Dispatch in Winnemucca. The Sheriff's Office dispatch center will assist with the tone out of the volunteers. In the north end of the county, fire users switch to NDF frequencies for command and tactical. In the south end of the county, they stay on the Sheriff's Office frequencies.

The Roads Department has a repeater site and uses a simplex frequency for local communication.

EMS remains on the Sheriff's frequencies. The Statewide EMS is changing to 800 MHz and going onto the statewide radio system.

The channels allocated for the Eureka County VHF system are listed in Appendix C.

3.2.3 Humboldt County VHF Conventional Shared System

Humboldt County Conventional Shared System Technology Overview

The Humboldt County VHF system is primarily used by the Sheriff. The system consists of a single frequency pair licensed by the Sheriff's Office at the following repeater sites: Trident, Blue Mountain, Buckskin, Golconda Summit, Hycroft, and Saipan. PL tones are used to activate the repeaters. The sites are linked via microwave to the Humboldt County dispatch center. The Sheriff's Office is licensed for a second local repeater pair used by law enforcement and fire located on Winnemucca Mountain.

The Sheriff's system is also used by the Winnemucca Police Department, and the Bureau of Indian affairs (BIA). The rural fire has a local repeater frequency pair at Winnemucca Mtn. They also have a frequency pair located at the following repeater sites: Trident and Golconda. There are also two Golconda repeater tactical frequency pairs.

The channels allocated for the Humboldt County VHF system are listed in Appendix C.

3.2.4 Lander County VHF Conventional Shared System

Lander County Conventional Shared System Technology Overview

The Lander County VHF system has a single VHF channel using different PL tones with repeater sites on Mt. Lewis, Bunker, Austin, Mount Tonabo, and a local Battle Mountain site. None of the mountain sites are linked together with microwave with the exception of Mt. Lewis. Using the Lewis site, dispatch can access Tonabo, Buker and Austin using separate PL tones. Most of the agencies in the County use the Sheriff's VHF system.

The channels allocated for the Lander County VHF system are listed in Appendix C.

3.2.5 Pershing County VHF Conventional Shared System

Pershing County Conventional Shared System Technology Overview

The Pershing County Sheriff's Office has one channel (frequency pair) on three repeater sites: Toulon, Winnemucca, and Mt. Moses. The dispatch center has a 900 MHz microwave to the base station on Toulon. One frequency is also used local (simplex), and there is an additional simplex frequency used car-to-car. The fire department uses the Sheriff's frequencies. Lovelock Police Department also has a car-to-car frequency.

The channels allocated for the Pershing County VHF system are listed in Appendix C.

3.2.6 White Pine County VHF Conventional Shared System

White Pine County Conventional Shared System Technology Overview

The Sheriff's Office is licensed to operate on a channel (two frequencies) at three repeater sites: Kimberly, Cave Mountain, and Victoria Park. The sites are not connected via microwave. The repeater transmit frequency also is used in simplex mode by the mobiles. The Sheriff also uses another simplex frequency for tactical operations.

The Sheriff's frequencies are also used by: Search and Rescue, the jail, the court bailiffs (simplex frequency), and the juvenile probation officers. The following tribal police departments are also dispatched on the Sheriff's frequency: Ely-Shoshone, Duck Water Shoshone, and Ghoshute.

An additional VHF conventional system is used in the County by the White Pine Fire District. The system has repeaters on Kimberly, Cave Mtn., McGill, Currant, and Kings in Utah. They are waiting approval for two more sites – Victoria and Timber Mtn. White Pine EMS operates on the fire frequencies.

The channels allocated for the White Pine County VHF system are listed in Appendix C.

3.2.7 NDF VHF Conventional Shared System

NDF Conventional Shared System Technology Overview

The NDF radio system consists of one frequency pair accessed via different PL tones. There are 36 repeaters and base stations. The Tonopah subgroup of repeaters uses a different repeater pair than the other sites. 5 Daniels repeaters and 5 Motorola repeaters are digital / narrowband capable. The other 26 Daniels repeaters are analog.

The main radios (base stations) are on McClellan Mt. (Reno, Carson City), Angel Peak (Las Vegas), Montezuma Peak (Tonopah), Winnemucca Mt. (Winnemucca), Elko Mt. (Elko), and Cave Mt. (Ely). The main radios are microwaved to the Minden and Elko Dispatch centers. The base stations are able to pick up every repeater. The NDF sites are either located in DoIT shelters, co-located with BLM or USFS sites, or arrangements have been made with private entities.

There are two dispatch centers: The Sierra Front Interagency Dispatch in Minden and the Elko Interagency Dispatch Center. Elko dispatch controls the radios in Elko, Humboldt, and White Pine County, Lander and Eureka Counties. Minden has the responsibility for

the rest of the NDF radio system in the state. The two dispatch centers are co-located with BLM and USFS. The Interagency Dispatch Center in Elko dispatches for numerous federal, state, and tribal wildland fire agencies and all-risk activities for Elko County for NDF.

Central Dispatch is collocated in the same building but is a completely separate entity that serves as the 911 / PSAP for Elko County.

The channels allocated for the NDF VHF system are listed in Appendix C.

3.2.8 NDOW VHF Conventional Shared System

NDOW Conventional Shared System Technology Overview

NDOW has three regions. Each region has two areas, each equipped with a base station at a repeater site; each area has several repeaters. NDOW has two repeater frequencies – one for repeater transmit and the other for mobile/portable transmit. PL tones transmitted from the base station provide repeater steering. Radio users provide their ID number and their repeater site when communicating. The dispatchers then select the appropriate repeater for transmit. The dispatch center is linked to the base stations via a T1 to Highway Patrol, and then onto the DoIT microwave. The base stations, and most of the repeaters, are located at DoIT shelters present at the sites.

The dispatch center is located in Reno and dispatches statewide for the agency. They support BLM and the U.S. Forest Service for law enforcement dispatch. They support air operations, performing hourly checks or whatever is required. The dispatch center is open from 6:00 A.M. until 11:00 P.M.

The channels allocated for the NDOW VHF system are listed in Appendix C.

3.2.9 Nevada State Parks VHF Conventional Shared System

Nevada Division of State Parks Conventional Shared System Technology Overview

State Parks has 9 repeater sites: 6 high level sites and 3 low level sites. The repeater sites are not linked. The low level sites are located in state parks to enhance coverage. There are also 35 base stations, one in each State Park. State Parks is comprised of two regions – Northern and Southern, with 24 parks in 13 of the 17 Nevada counties. Only Storey, Lander, Eureka. And Esmeralda Counties do not have state parks.

State Parks has 3 VHF frequencies licensed as statewide mobile channels. DPS provides dispatch for all but one State Park. The DPS Dispatch Centers are located in Las Vegas, Carson City and Elko. Lyon County Sheriff's Office provides dispatch for Lahontan State Recreation Area.

The channels allocated for the Nevada State Parks VHF system are listed in Appendix C.

3.3 Interoperable Frequency/Channel Policies and Procedures

Definition of an Interoperable Frequency/Channel

"Interoperable frequency/channel" refers to common frequencies/channels established and programmed into radios to provide interoperable communications among agencies using ***different*** radio systems. "Channel," in this context, refers to the name of a common frequency/channel visually displayed on a user's radio.

Interoperable Frequency/ Channel Technology Overview

Specific interoperable communication frequencies/channels available within the region are listed in the tables below. More detailed information on each channel is documented in Appendix D.

The policies, procedures, rules of use and conventional shared system problem ID and resolution are the same as "All Assets Policies and Procedures", "All Assets Rules of Use", and "All Assets Problem ID and Resolution" listed in Section 3.

Responding agencies can contact requesting agency for channel assignment listed in Appendix A. Responding agencies can also contact nearby dispatch centers in case of en route emergencies. The Nevada Tactical Crossband repeaters described below also provide an interoperability resource throughout the Northeast Region.

3.3.1 Nevada Tactical Crossband Repeaters Shared Channel

Nevada Tactical Crossband Repeater Technology Overview

The Nevada crossband repeaters network will enable VHF and 800 MHz users to talk directly to each other without the intervention of a technician or a dispatch operator. To use a crossband repeater, a radio user simply changes to the interoperability channel.

The statewide tactical crossband repeaters are designed to interconnect 800 MHz and VHF narrowband conventional channels. Currently, approximately 38 crossband repeater sites have been identified throughout the state, 18 of which will be operational in early 2010.

Each repeater site will have a total of six channels, one calling channel and two tactical channels in both VHF and 800 MHz. When responding to or reporting a mutual aid incident, these calling channels are the primary communications path used to respond to the incident.

Nevada Tactical Crossband Repeater Channel Policies and Procedures

A typical scenario is for an emergency responder to contact a Communications/Dispatch Center on the calling channel and then expect to be directed to the appropriate tactical channel. The responder will be able to reference the Regional Tactical Interoperable Communication Plan (TICP) to determine the calling channel for their region. In some cases, during early deployment of the crossband repeaters, a dispatch / communication

center may not be actively monitoring the calling channel. In this case the responder should follow established SOPs in order to access the crossband repeater.

Every entity with emergency responder responsibilities should develop or participate in an SOP that covers the use of the statewide crossband repeater network. Each SOP must specify the procedures for monitoring the calling channels and outline specific procedures for using both calling and tactical channels.

Applicable Incidents or Events

Any day to day, planned, or major incident involving more than one emergency response agency.

Applicable Disciplines and Entities

Any agency who desires to use these channels must sign an MOU with the Nevada Division of Emergency Management and Homeland Security.

Applicable Locations

Applicable within the coverage area of any one of the crossband repeater sites in the State of Nevada. In the Northeastern Region of Nevada these sites primarily cover the major population centers and travel corridors within the region. Appendix D contains a list of the Nevada Tactical crossband repeater locations.

Levels of Activation

System is activated according to priority:

Priority 1: Involves a life-threatening emergency that requires immediate assistance of more than one agency and direct communication between agencies is essential to the emergency.

Priority 2: Involves a serious incident of life-threatening or potentially life-threatening circumstances that requires the assistance of more than one agency that will be beneficial to the emergency.

Priority 3: Involves incidents of a serious nature that requires the assistance of more than one agency and direct communication between agencies will assist in the response to the incident.

In the event of a second incident that requests use of Tactical Crossband Repeater Channel that is currently in use, a request will be made directly to the Incident Commander of the first incident to determine if their situation is sufficiently contained to allow a second incident to come up on the channel. The priority, severity, scope and nature of the second incident will be given due consideration in determining release of the tactical channel for the second or concurrent incident.

Nevada Tactical Crossband Repeater Channel Rules of Use

Activation Procedure

1) Incident that requires more than one emergency response agency.
2) User will switch to a crossband repeater tactical channel and ask if channel is in use.

3) After the User finds an open channel, they will contact the user's Communication Center on their primary dispatch channel and notify them of the Crossband Repeater Tactical Channel in use for the incident.
4) The Communication Center should then notify the communication center of the responding agencies and notify them of the tactical channel in use for the incident.
5) Additional users will contact their communication center and will be directed to the correct crossband repeater channel.
6) Users are advised that their Communication Center may not be able to monitor the crossband repeater channels.

Transfers and Changes.

Any transfer to another channel will be coordinated through the agency dispatch centers.

User Notification Method:

Activation

Coordinate through the user's Communication Center and the Incident Commander.

Change or transfer of interoperability control

The Incident Command and the Incident Commander's communication center will coordinate the transfer of interoperability control.

Instructions for access

The Tactical Crossband Repeater Network is accessible by all users in the coverage footprint provided the channels are programmed into the radios.

Alternate and/or secondary solution activation

Primary Dispatch Channels will be used to coordinate activation of an alternate or secondary solution.

Deactivation Procedure

Users should be notified of Deactivation as follows:

1) Incident Commander makes the determination that the Tactical Crossband Repeater channel is no longer needed and contacts their communication center.
2) The Incident Commander's communication center will notify other agency dispatch centers that the interoperability resource is being deactivated.
3) Each communication center will notify their users to return to the normal dispatch channel.
4) Roll call should be made on the primary channel

Nevada Tactical Crossband Repeater Problem ID and Resolution

Following an event that activated a channel on the Tactical Crossband Repeater Network, the requesting agency and the Incident Commander will complete the following information if any problems were encountered:

1) Nature of the Problem
2) Duration of the Problem
3) Any recommended solutions, especially if the problem was of an operational nature.

Send the completed feedback information to the NCSC.

3.4 Gateways (Pending)

"Gateway" systems interconnect channels of disparate systems (whether on different frequency bands or radio operating modes), allowing first responders using their existing radios and channels to be interconnected with the channels of other users outside of their agency. Dispatch consoles that are able to create patches will also be captured as gateways. Throughout this section the procedures outlined apply to Mobile Gateways, Fixed Gateways and Console Gateways. Gateways are often referred to as "patches". Gateways are listed in the following table. More detailed information on each gateway is provided in Appendix E.

Table 5 Northeastern Nevada Region Gateway Systems

Gateway Name	Owning Agency	Day-to-Day or Incident / Event	Make / Model	Fixed / Mobile	No. of Simultaneous Nets	No. of Ports
STR *	DPS Division of Emergency Management	Incident	Incident Command radio Interface (ICRI)	Mobile		
Elko IMC	NDOT	Incident		Console	6	N/A

Note: *The "STR" is a mobile communications vehicle and has more equipment than just a gateway.*

The assets in the above table are pending. The following sections have not been created and need modification.

3.4.1 Gateway Policies and Procedures

Gateway Rules of Use

In addition to the "All Assets Policies and Procedures" listed above, the following policies also apply.

- **Encryption** – All encrypted radios users must operate in a "clear" mode when a gateway is used, unless otherwise arranged in advance. **Never assume encryption carries across the gateway.**
- **Monitoring** – The system owner and/or the Incident Commander, or their designee, will ensure that each activated interoperability channel is monitored consistently while in use if the capability exists.
- **Gateway users shall refrain from using primary dispatch talkgroups/channels.**

Gateway Communications Request

The COML and/or Incident Commander must be aware that activating multiple gateways to support an incident can result in mutual interference. Interference issues are best resolved by the technical support team assigned to the gateways.

The agency requesting the use of a fixed or mobile gateway device for incident/event communications support should document and provide the following information to the owning gateway agency POC, on request:

- Requesting agency
- On-scene agencies requiring interoperability
- Incident/event type (e.g., wild land fire, etc.)
- Equipment required
- Expected duration of event
- Location required/access information
- Incident POC
- User/requestor and/or servicing dispatch contact phone number
- Additional support services requested (e.g., gateway operator, generator, etc.)

Gateway Deployment Procedures

Upon receiving a request for the deployment of a gateway, the owning agency dispatcher should follow these deployment procedures:

- Written approval by authorized agency representatives is required for interoperable frequency/channel use.
- Contact the on-call mobile gateway operator/technician responsible for gateway deployment.
- Dispatch the gateway operator to the incident scene.
- Inform the requesting agency that the mobile gateway is en route and provide an estimated time of arrival (ETA), if available.

The gateway operator should follow these deployment procedures:

- Provide dispatch with an ETA at the incident and method of communications while en route (e.g., designated radio channel, cell number).
- Retrieve the dedicated unit and mobile gateway from its storage location and deliver it to the incident scene
- Report to the Incident Commander or Check-in on arrival.
- Once on-scene, establish patches via the mobile gateway in accordance with the Gateway Activation Procedures listed above.

Gateway Activation Procedures

Once the owning agency grants authorization to use their fixed gateway, the region-wide procedures for establishing communications connectivity are:

- Select a channel or talkgroup on the home system for use in the gateway patch.
- Verify the system-wide availability of required resources (coordinate among control point dispatchers).
- Provide radio call sign/designator information to connected agencies as needed.

- Assign the requested unit/agency to that channel or talkgroup.
- Connect the agency to the appropriate talkgroup.
- Announce to users that interoperability is activated.
- Identify users on the interoperability channel using their agency name and unit identifier through *a roll call*.
- Monitor the interoperability channel to address requests.

Gateway Deactivation Procedures

When the gateway connection(s) is (are) no longer required, agencies should follow these deactivation procedures:

- Contact the monitoring dispatcher (for fixed gateways) or the gateway operator (for mobile gateways) to request patch/gateway deactivation.
- Announce over all patched channels/talkgroups that connections will be deactivated prior to the connection being disabled.
- Return all personnel to their appropriate home system channel assignments.

Gateway Problem ID and Resolution

During an incident:

- Report gateway problems to the owning agency dispatcher (for fixed gateways) or mobile gateway operator (for mobile gateways), who will follow established agency procedures to resolve the problem.

Following an incident, the following general problem ID and resolution processes apply to all regional gateways:

- Report any problems with the gateway to the appropriate POC for that agency listed in Appendix E. The POC will be responsible for ensuring effective resolution to problems that exist with the gateway.
- Report unresolved gateway problems directly to the COML or their designee. The COML or their designee will ensures effective resolution to reported gateway problems.

Gateway Limitations

Interoperability provided through a gateway can connect participating agency responders but has the following limitations:

- The number of simultaneous patches that can be supported by the gateway will be limited by switch capacity and the number of lines connecting control centers and consoles. As a result, a limited number of patches involving resources at different control points can be supported simultaneously. Likewise, a limited number of patches involving resources that are accessed through a communications center console may be supported simultaneously.

- Home system coverage may limit communications. Gateway users must be within the footprint of their coverage area.
- Agencies not permanently configured on a given gateway will require additional planning to establish interoperable communications through that gateway.

Gateway Test Procedures

To ensure that equipment components of the gateway operate properly, each agency will participate in the following testing procedure:

- Representatives from multiple agencies should meet on a regular basis to test each gateway.
- Testing should include setup, operation, and deactivation of each gateway.
- If an issue or problem is identified during the testing procedure, determine who will take corrective action. If the issue or problem cannot be resolved, contact the appropriate technical personnel to address the issue or problem.

3.5 Cache Radios

Cache radios, also known as "swapped radios," refer to maintaining a cache of standby radios that can be deployed to support regional incidents. These radios may be from a regional cache or from a participating agency. These radios allow all responders to use common, compatible equipment during an incident. Specific caches within the Northeastern Nevada Region are listed in the following table. Detailed information on cache radios can be found in Appendix F.

Table 6 Northeastern Nevada Region Radio Cache(s)

Radio Cache Name	Make / Model	Owning / Managing Agency	Frequency Band	Type	Qty
Elko County SO	Motorola HT1000	Elko County Sheriff	VHF 150 MHz	Portable	20
Elko County SO	Motorola HT1500	Elko County Sheriff	VHF 150 MHz	Portable	10
NDOT – Elko	MA/Com LPE-200	NDOT	800 MHz	Portable	12
NDOT – Elko	Motorola MT1000	NDOT	VHF 150 MHz	Portable	12
NHP – Elko	Motorola MTS2000	NHP	VHF 150 MHz	Portable	23

3.5.1 Region-wide Cache Radio Policies and Procedures

Northeastern Nevada Region radio caches have the following characteristics:

- Portable radios are fully charged and maintained, ready for immediate deployment.
- Radios with clamshell battery systems will be maintained with an adequate supply of fresh spare batteries to support 72 hours of deployment.
- Deployed equipment may include rechargeable batteries and battery chargers to support extended deployments.
- Personnel may be available to transport equipment to the incident scene. However, the requesting agency may be required to pick up the radio cache.
- Personnel or technicians may be available for on-scene support during the deployment.

800 MHz Cache Radios

All Northeastern Nevada Region responding agencies can contact the requesting agency for channel assignment listed in Appendix F. Responding agencies can also contact nearby dispatch centers in case of en route emergencies.

VHF Cache Radios

All Northeast Nevada Region VHF radio caches are required to have the interoperability channels identified in Appendix F programmed into the cache. These channels were selected based on the interoperability needs and capabilities of the region.

Region-wide Radio Cache Request

The Incident Commander, or their designee, determines when a situation exists that requires the use of a regional radio cache and notifies the appropriate radio cache owning agency. The requesting agency will follow internal agency procedures to contact the COML or Radio Cache Agency POC and relay pertinent information regarding the event. The requesting agency documents and, if possible, will provide the following information to the Radio Cache Agency POC, on request:

- Requesting agency
- On-scene agencies requiring interoperability
- Incident/event type of event (e.g., wildland fire, etc.)
- Equipment requirements
- Expected duration of event
- Location required/access information
- Incident POC
- User/requestor and/or servicing dispatch contact phone number
- Additional support services requested (e.g., technician, chargers, etc.)

The radio cache owning agency determines what radio caches are available for use, identifies a specific cache, activates that cache, and coordinates the cache deployment with the requesting agency Incident Commander or their designee.

Region-wide Radio Cache Equipment Activation

Upon receiving a request for the deployment of a radio cache, the owning agency should follow these deployment procedures:

- Contact the duty officer or on-call technician responsible for radio cache deployment.
- Dispatch the radio cache to the incident scene.
- Inform the requesting agency that the radio cache is en route and provide an estimated time of arrival (ETA), if available.

The **radio cache owner (or designee)** should follow these deployment procedures:

- Provide requesting agency with an ETA at the incident.
- Retrieve the radio cache from its storage location and ensure its delivery to the incident scene.
- Report to the Incident Commander or check-in on arrival.
- Once on-scene, sign the cache over to the requesting agency for incident use or, if assigned to remain on scene, coordinate radio cache deployment procedures with the Communications Unit.
    - Each radio in the radio cache will have a unique identification number (i.e., serial number) for inventory tracking. Ask the receiving agency to sign a property transfer form if they take responsibility for managing the radio cache on scene.

- An accounting sheet will be attached to the radio cache container for inventory purposes.
- The receiving Communications Unit is responsible for signing out and tracking individual radios from the radio cache.
- The requesting Incident Commander, or their designee, will be responsible for authorizing:
  - Radio deployments on-scene
  - A record of each user and agency to whom a radio and associated accessories have been distributed
  - The identification number of each radio deployed
  - The documentation of the channel(s) in use

Region-wide Radio Cache Equipment Deactivation

When the radio cache is no longer required, agencies should follow these deactivation procedures:

- Coordinate the return of all cache radios to the Communications Unit through the Incident Commander or their designee.
- The Communications Unit will be responsible for inventorying all radios and accessories returned to the cache. Before leaving the incident scene, the Communications Unit will determine if any radios have not been returned to the radio cache and note the user and agency to which the radio was distributed. Provide this information to the Incident Commander or their designee.
- If the missing radios cannot be recovered at the incident scene, the Communications Unit will provide this information to the Radio Cache Agency POC for resolution.
- The Incident Commander, or their designee, will be responsible for the return of the cache radios and all associated accessories to the owning agency at the end of the incident.

Region-wide Radio Cache Problem ID and Resolution

In the absence of other agreements, the agency handling the incident accepts the risk of financial recovery should anything happen to the radios in the cache, i.e., loss, destruction, etc.

During an incident:

- Report radio cache problems to the radio cache technician or their designee who will follow established agency procedures to resolve the problem.

Following an incident, the following general problem ID and resolution processes apply to all regional radio caches:

- Report any problems with the radio cache to the appropriate POC for the owning agency listed in Appendix F. The POC will be responsible for ensuring effective resolution to problems that exist with the radio cache.

3.6 Mobile Communications Units

A mobile communications Unit (MCU) (also known as a Mobile Communications Center (MCC) or Mobile EOC) refers to any vehicular asset that can be deployed to provide or supplement communications capabilities in an incident area.

Examples of the types of communications devices an MCU can house are: subscriber and base station radios of various frequency bands, gateway devices, satellite phones, wireless computer networks, video broadcasting/receiving equipment, etc.

Typically these communications devices are permanently [located/stored] in the MCUs when not used. The MCU should also be able to temporarily provide the electrical power required to operate the communications devices. More detailed information on each MCU is provided in Appendix G, including the specific rules of use for each agency. Below are the rules of use that apply to all Mobile Communication Units in the Region.

Table 7 Northeastern Nevada Region Mobile Communications Unit(s)

Unit ID / Designator	FEMA Type	Owning Agency	Deployment Area
TBD #1	TBD	Elko County Sheriff	Statewide
TBD #2	TBD	Eureka County Sheriff	Regionwide
TBD #3	TBD	Lander County Sheriff	Regionwide
TBD #4	TBD	Pershing County Sheriff	Regionwide
TBD #5	TBD	NDF and Nevada State Park	Statewide

All Mobile Communication Units

Mobile Communications Unit Technology Overview

For specific information on each MCU, see Appendix G.

Mobile Communications Unit Rules of Use

The Communications Unit is part of the Logistics function and is managed through the Incident Command System. Dispatchers (radio operators) and communications technicians serving the incident will also be part of the unit, as requested.

Communications will be integrated into ICS-based management systems used by this region through the assignment of Communications Unit Leader responsibilities. Incident Commanders should ensure communications are integrated into the incident action planning. Early involvement ensures the response is well supported by communications and reinforces the chosen command structures and operating principles generally embodied in the Incident Command Structure and NIMS.

The Communications Unit Leader (abbreviated as COML within the NIMS) has the responsibility to assign resources, including radio channels/talkgroups and equipment during an incident, based on the circumstances, agencies involved and available resources. The COML must be part of the planning process and determine the

communications resources required to support the objectives and tactics of the Incident Action Plan. In the absence of a COML, the Incident Command System will absorb the duties through the normal chain of command.

Communications resources among simultaneous incidents are coordinated by a Communications Coordinator (COMC) through the NIMS Multi-Agency Coordination System if available.

Mobile Communications Unit Interoperable Communication Request

The Incident Commander, or their designee, determines when a situation exists that requires the use of an MCU and notifies the appropriate dispatch center. The dispatch center will follow internal agency procedures to contact the COML or MCU POC and relay pertinent information regarding the event. The requesting agency documents and provides the following information to the MCU POC, on request:

- Requesting agency
- Agencies requiring interoperability
- Incident/event type (e.g., wildland fire, etc.)
- Expected duration of event
- Location required/access information
- Incident POC
- User/requestor and/or servicing dispatch contact phone number
- Additional support services requested
- Special circumstances related to the incident
- Specify under which aid/agreement the resource is being requested

The MCU Agency determines if the MCU is available for use and coordinates the deployment with the requesting agency Incident Commander or their designee.

In preparing for the tactical phase of an incident response, it is anticipated that a number of talk paths will be required to adequately support emergency personnel.

Mobile Communications Unit Activation Method

Upon receiving a request for the deployment of an MCU, the owning agency **dispatcher** should follow these deployment procedures:

- Contact the responsible POC for MCU deployment.
- Dispatch the MCU to the incident scene.
- Inform the requesting agency that the MCU is en route and provide an estimated time of arrival (ETA), if available.

The **MCU response personnel** should follow these deployment procedures:

- Provide dispatch with an ETA at the incident.
- Retrieve the MCU from its location and deliver it to the incident scene.
- Check-in upon arrival.

Mobile Communications Unit Deactivation

When the MCU is no longer required, agencies should follow these deactivation procedures:

- Follow the demobilization process of the ICS.

Mobile Communications Unit Problem ID and Resolution

During an incident:

- Follow the Incident Command structure to report and resolve any problems.

3.7 ARES/RACES

The EOC Amateur Radio Team will consist of volunteers from the Community Emergency Response Team (CERT). Upon activation of the EOC and EOC request for deployment, radio operators will report to the EOC and man the radios for the duration of the Emergency.

Radio Teams consist of volunteers committed to the operations of the EOC but possibly unable to respond immediately to a deployment. There are several Points of Contact for the Radio Teams listed below in order of contact that will enable the Radio Teams to be deployed in the fullest and fastest manner.

Activation of the Radio Teams will be the responsibility of the EOC for the CERT Teams.

Deactivation of the Radio Teams will be determined by the EOC for the CERT Teams.

The Radio Teams are composed of individuals familiar with all aspects of radio communications in their area of responsibility and will provide multiple and redundant communication avenues in case of emergency deployment and will be able to address all problems/issues associated with their radio systems that may arise as a result of the emergency.

Amateur radio equipment in the EOC is capable of operating on frequencies ranging from 1.8 MHz to 1200 MHz and above. These frequencies allow for communications locally and across the country. Communication modes include analog and digital voice, digital text, and digital image.

Radio Amateur Civil Emergency Services (RACES) is activated by the Radio Officer under local jurisdiction. The Radio Officer is appointed in writing by the local jurisdiction. The Radio Officer appoints RACES Operators under the Presidents War Emergency Powers, Provision Section 706 of the Communications Act of 1934. This allows the Amateur Radio Operators to communicate with other RACES and Government Stations. Amateur Radio communications will be in compliance with FCC Rules and Regulations, Part 97.407.

Amateur Radio frequencies are open and not subject to the non-disclosure rules of other radio services. Therefore, these communications should be treated as "open mike" communications and sensitive information should not be sent via Amateur Radio.

Amateur Radio Operators will also operate the Shared Resources High Frequency Radio Program (SHARES). These are Government HF (1.8 - 30 MHz) frequencies that provide a single agency emergency message handling system for worldwide communications. SHARES communications will be in compliance with FCC Rules and Regulations. At this time SHARES operators reside only in Humboldt County.

4 Regional Emergency Resource Staffing

Emergency Resource Directory

The Emergency Resource Directory establishes a list of personnel who will respond to fill the Communication Unit positions. See Appendix A for agency contact information.

Identified personnel should train and exercise to a regional response level. Job descriptions and qualified personnel for each Communications Unit position are detailed below.

Dispatch Center

Communications Coordinator (COMC) – The COML will work with the COMC to coordinate communications with other dispatch centers and the incident communication plan. Locally, the jurisdictional dispatch center supervisor or dispatcher will act as the Communications Coordinator. Coordinators may also be located at the region/county, State, and Federal level.

At an Incident/Event

Communications Unit Leader (COML) –Manages the technical and operational aspects of the Communications Function during an incident or event. Develops National Incident Management System (NIMS)/Incident Command System (ICS) Form 205 Incident Radio Communications Plan and supervises the communication unit.

Technical Specialist (THSP) – Allows for the incorporation of personnel who may not be formally certified in any specific NIMS/ICS position. THSPs may include Local Agency Radio Technicians (as opposed to the COMT), Telephone Specialists, Gateway Specialists, Data/IT Specialists, and or Cache Radio Specialists.

Incident Communications Technician (COMT) – Deploys advanced equipment and keeps it operational throughout the incident/event.

Incident Communications Center Manager (INCM) – Supervises the operational aspects of the Incident Communications Center (ICC) (Mobile Unit and/or Fixed Facility). During an incident, the ICC is designed to absorb incident traffic in order to separate that traffic from the day-to-day activities of the dispatch center. The ICC is typically located at the Incident Command Post (ICP) in a fixed site, tent, trailer, mobile communications unit.

Incident Dispatchers (INDI) - The Incident Dispatcher along with the Incident Communications Manager is responsible for receiving and transmitting radio and telephone messages among and between personnel and to provide dispatch services at the incident.

Radio Operator (RADO) - Staffs a radio at the ICC and is responsible for documenting incoming radio and telephone messages. Incident Dispatchers or Tactical Dispatchers are used as RADOs.

Table 8 Regional Emergency Resource Personnel

	Name	Agency	Address	Phone	Email
COMC					
COML					
INCM					
RADO					
Cache THSP					
Gateway THSP					
Other THSP					
INDI					

5 CASM

5.1 Overview

The Communication Assets Survey and Mapping (CASM) tool provides the ability for representatives of public safety agencies within an urban area or State to collect, store, and visualize data about agencies, communication assets, and how agencies use those assets.

The purpose of CASM is to:

- Provide a single repository for information about land mobile radio systems, other interoperability methods, and how they are used by public safety agencies within a state or urban area.
- Provide a method to display the data.
- Provide tools to analyze the data and visualize interoperability gaps in accordance with the Interoperability Continuum framework.

The CASM tool is composed of two components: the Communication Assets Survey (CAS) and the Communication Assets Mapping (CAM) tool. The CAS component provides a means to enter, edit, and delete information about agencies, communication assets (such as radio systems, dispatch centers, mutual aid channels/systems, gateways and radio caches), and agency usage of those assets. The CAM component provides a means to display this information in a map-based interface and provides analysis tools for displaying agency-to-agency interoperability, including interoperability gaps, in various ways.

The CASM tool is web-based and requires the user to have an active internet connection in order to access both the CAS and CAM components. CAS is a website that may be accessed via any internet browser, such as Internet Explorer, Netscape Navigator, or Mozilla Firefox. CAM is a client application that must be downloaded, installed, and executed on the user's computer. A user must have internet access in order to operate CAM.

Authorization to view data for a particular urban area or State is controlled by the Northeastern Nevada Region Administrative Manager (AM); each user must have a user name and password in order to login.

The CASM AM POC is listed in the following table:

Table 9 CASM AM POC Information

Name	Phone	Email	Area of Responsibility

Appendix A Points of Contacts

A.1 Public Safety

Table A - 1 Public Safety Points of Contact

Location	County	Agencies Served	Agency	Contact Phone Number
LOCAL				
Elko County	Elko County	Elko County Sheriff, Elko City PD, Carlin PD, Elko County Ambulance, Elko City Fire, Wells Fire and Ambulance, Carlin Fire and Ambulance, Jackpot Fire and Ambulance, Bureau of Indian Affairs and Tribal, School District Police, Summit Air, Public Works and the Juvenile Center	Central Dispatch Authority	775-777-7301
Regional	Elko County	Bureau of Land Management, Nevada Division of Forestry, US Forest Service, Bureau of Indian Affairs, Sho-Pai Firefighters and US Fish and Wildlife Service. We provide All Risk Emergency service for NDF in Elko and Eureka Counties and Wildland fire dispatch center for all entities.	Elko Interagency Dispatch Center (NDF)	775-748-4000
City of Elko	Elko County	City of Elko PD, City of Elko Fire, City of Elko Public Works	Elko Dispatch	(775) 738-4005
City of West Wendover	Elko County	City PD, Fire/EMS, DPW (primary); Probation & Parole, Tooele County UT (secondary)	West Wendover Fire Department	775-664-2274
City of Eureka	Eureka County	Sheriff's Office, Fire/EMS (Note: Fire/EMS in N part of county dispatched out of NDF in Elko Central; Fire also dispatched from BLM Dispatch in Winnemucca	Eureka County Sheriff's Office	775-237-5330
Winnemucca	Humboldt County	Sheriff's Office, Winnemucca Police Department, EMS and ambulance, all fire districts, BIA and school district	Humboldt County Sheriff's Office	775-623-6419
Battle Mountain	Lander County	Sheriff's Office, Fire, EMS, Western Shoshone Department of Public Safety (tribal)	Lander County Sheriff's Office	775-635-1100

Location	County	Agencies Served	Agency	Contact Phone Number
Lovelock	Pershing County	County Sheriff, Lovelock PD, County Fire, Lovelock Tribal PD	Pershing County Sheriff's Office	775-273-2641
Ely	White Pine County	All agencies in county - Sheriff's Office, EMS, White Pine Fire District, 3 tribal police departments - Ely-Shoshone, Duck Water Shoshone & Goshute	White Pine County Sheriff's Office	775-289-4833
STATE				
Nevada	Washoe	Nevada Division of Wildlife	NDOW	(775) 688-1500
Nevada	Elko	Nevada Department of Transportation	NDOT	775-777-2700
Nevada	Elko	Nevada Highway Patrol	NHP	(775) 753-1111
FEDERAL				
Winnemucca	Humboldt County	Winnemucca and Battle Mountain Bureau of Land Management (BLM) Districts, the Santa Rosa, Austin, and Tonopah Ranger Districts of the Humboldt-Toiyabe National Forest, the Bureau of Indian Affairs (BIA), and the U.S. Fish and Wildlife Service (USFWS)	Department of Interior, Central Nevada Interagency Dispatch Center	(775) 623-3444 (800) 535-6076 (775) 623-1555
Federal		U.S. National Park Service		(202) 208-6843
Federal		U.S. Bureau of Reclamation		(202) 513-0501
Federal		U.S. Postal Inspectors		(626) 405-1200
Federal		U.S. Secret Service		(202) 406-5708
Federal		U.S. Immigration and Customs Enforcement		(202) 305-2734
Federal		Bureau of Indian Affairs		(202)208-7163
Federal		U.S. Drug Enforcement Agency (DEA)		(202) 305-8500
Federal		U.S. Parole and Probation		(301) 492-5990
Federal		Federal Aviation Administration		(866) 835-5322
Federal		U.S. Transportation Security Administration		(866) 289-9673

Location	County	Agencies Served	Agency	Contact Phone Number
Federal		National Weather Service		(775) 778-6716
Other Agenices		Nevada Air National Guard, Bureau of Investigation, Capitol Police, Department of Information Technology, Department of Public Safety, Department of Wildlife, Division of Emergency Management, Division of Forestry, Highway Patrol, Parole and Probation, Taxi Cab Authority		(775) 688-2830

A.2 Nongovernmental Agency Contact Information

Table A - 2 Nongovernmental Agency Contact Information

Agency	Name	Phone	Email
Frontier Communications	Kevin Ancell	(775)738-0232	kevin.ancell@frontiercorp.com
ARES	Greg Barker		gbarker@frontiernet.net
Barrick Gold Corporation	Kevin King	(775) 778-7080	kking@barrick.com
Red Cross	Bailey Billington	(775) 753-9600 (775) 340-4550 (Cell)	billingtonb@nevada.redcross.org
Red Cross	Stephan	(775) 623-4010	
KT Contract Services	Steve Russell	(702) 644-2233	
Nevada Hospital Association	Ken McKim Angela Krutsinger	775-827-0184	ken@nvha.net angela@nvha.net

A.3 NCSC Member Information

Table A - 3 NCSC Contact Information

Agency	Name	Position	Phone	Email

Elko County Sheriff's Office	Dale Lotspeich	Chairman of NCSC; Sheriff	(775) 777-2501	dlotspeich@elkocountynv.net
City of Las Vegas Fire Department	Louis Amell	Director of Communications	(702) 229-0237	lamell@lasvegasnevada.gov
Nevada Department of Transportation	Robert Chisel	Assistant Director	(775) 888-7440	rchisel@dot.state.nv.us
Carson City Sheriff	Steve Albertsen	Under Sheriff		salbertsen@ci.carson-city.nv.us
City of Sparks Fire Department	Jake Conely	Captain	(775) 815-1252	jconely@cityofsparks.us
Nye County Sheriff's Office	Anthony (Tony) DeMeo	Sheriff		ademeo@nyecounty.net
Las Vegas Paiute Police Department	Donald Belcher	Chief		dbelcher@lvpaiute.com
Nevada Health Division	Mark Foxen	Computer Network Specialist		mfoxen@nvhd.state.nv.us
Lincoln County	Ronda Hornbeck	County Commissioner		ronda@lcturbonet.com
Reno Police Department	Dale Evans	Lieutenant	775-34-3844	evansdj@ci.reno.nv.us
Washoe County Sheriff's Office	Tim Kuzanek	Lieutenant		tkuzanek@washoecounty.us
Clark County	Lester Lewis	CIO		llewis@co.clark.nv.us
Nevada Army Guard	Vernon Scarbrough			Vernon.scarbrough@us.army.mil
City of Yerington	Dan Newell	City Manager		manager@yerington.net
Department of Public Safety – Nevada Highway Patrol	Chris Perry	Colonel		cperry@dps.state.nv.us
Las Vegas Metropolitan Police Department Division	Phil Roland	Communications and Technology Services Division Director		p3991r@lvmpd.com
Conservation & Natural Resources	Kay Scherer	Deputy Director		kscherer@dcnr.nv.gov
Douglas County	Tammy James	Communications Manager		tjames@co.douglas.nv.us
City of North Las Vegas	Dan Lake			laked@cityofnorthlasvegas.com

A.4 Subcommittee Working Group Member Information

Table A - 4 Subcommittee Working Group Member Information

Agency	Name	Phone	Email
Elko County Sheriff	Dale Lotspeich	(775) 777-2501	sheriff@elkocountynv.net
NDF FMO	Sam Hicks	(775) 738-3454	shicks@forestry.nv.gov
KT Contract Services	Steve Russell	(775) 777-9309	steve.russel@coachesa.us
Carlin PD	Bill Bauer	(775) 754-2222	carlinpd_bbauer@frontiernet.net
Frontier Communications	Kevin Ancell	(775)738-0232	kevin.ancell@czn.com
NDOT Region 3 Communications	Ken Wiley	(775) 777-2720	kwiley@dot.state.nv.us
DPS/NHP	Kent LeBarts	(775) 753-1259	klebarts@dps.state.nv.us
DPS/HPD	Vicki Alben	(775)753-1351	valbin@dps.state.nv.us
NHP	Mark Malloy	(775) 753-1182	mmalloy@dps.state.nv.us
NDOT	Michael Murphy	(775) 777-2700	mmurphy@dot.state.nv.us
BLM/BIA/USFS Fire	Jeff Arnberger	(775) 753-0304	jeffrey_arnberger@blm.gov
Amateur Radio Emergency Service ARES	Greg Barker	(775) 934-5065	gbarker@frontiernet.net
Barrick Dir. Security	Kevin King	(775) 778-7080	kking@barrick.com
Barrick Environmental Super. and ARES Sect. Mgr.	Joe Giraudo	(775) 778-8140	jgiraudo@barrick.com n7jeh@arrl.org
CTA Communications	Walter “Budge” Currier	(434) 239-9200	Walter.currier@aecom.com
NVEnergy	Robert Lino	(775) 753-1820	rlino@nvernergy.com
Sierra Electronics	Dale Scott	(775) 388-7422	dales@sierraelectronics.com
Carlin VFD	Will Johnston	(775) 777-5253	will@unr.edu
Wells Rural Electric Company (WREC)	Roger Finn	(775) 752-3328	rfinn@wrec.coop
US Forest Service	Martin Budzynski	(775) 778-6107	mbudzynski@fs.fed.us
Elko Central Dispatch	Kristine Stork	(775) 777-7301	ecddirector@frontiernet.net
NDF Dispatch/EIDC	Holly Bullington	(775) 748-4000	hbullington@forestry.nv.gov
KT Bus	Ed Morgan	(775) 340-8500	clay4447@hotmail.com
Elko County School District	Bill Micheli	(775) 738-4360	bmicheli@elko.k12.nv.us

Agency	Name	Phone	Email
Southern NV Area Comm Council	Jim Wilson	(702) 455-7390	jimwi@co.clark.nv.us n7rc0@cox.net
City of Elko	Dennis Strickland	(775) 777-7241	dstrickland@elko.nv.us
National Weather Service	Michael Fitzsimmons	(775) 778-6716	michael.fitzsimmons@noaa.gov
Elko County Building & Safety	Thomas Ingersoll	(775) 738-6816	tingersoll@elkocountynv.net
CTA	Krasna Svoboda	(916) 202-5607	krasna.svoboda@aecom.com
American Red Cross	Bailey Billington	(775) 753-9600	billingtonb@nevada.redcross.org
Elko County Sheriff	Marvin Morton	(775) 340-3833	mmorton@elkocountynv.net
Western Shoshone DPS	Ed Abel	(775) 738-2650	edabel@hotmail.com
Newmont Gold	Clair Morris	(775) 778-2040	clair.morris@newmont.com
NOAA/NWS	Kevin Baker	(775) 786-6716	kevin.baker@noaa.gov

A.5 Great Basin Tribes Information

Great Basin Tribes		
Battle Mountain Band Council Joseph Holley Chairman LaVona Johnson, Vice-Chair 37 Mountain View Drive Battle Mountain, NV 89820 Ph:(775) 635-2004 Fx: (775) 635-8016	Carson Colony Council Warner Gary Nevers, Chairman Bertina Galvin, Vice Chair 2900 South Curry Street Carson City, NV 89703 Ph: (775) 883-6459 Fx: (775) 883-6467	Dresslerville Community Council Anthony Smokey, Charmin Rebecca Smokey, Vice-Chair 919 Highway 395 South Gardnerville, NV 89410 Ph:(775) 265-4191 Fx: (775) 265-6240
Duck Valley Sho-Pai Tribes Terry Gibson Chairman Kyle Prior-Vice Chair P.O Box 219 Owyhee, NV 89832 Ph: (208) 759-3100 Fx: (208) 759-3102	Duckwater Shoshone Tribe Ruby Sam-Chairman, Alissa Thompson-Vice Chair P.O Box 140068 Duckwater NV 89314 Ph: (775) 863-0227 Fx: (775) 863-0301	Elko Band Council Hugh Stevens-Chairman, Darla Lorzano-Vice-Chair 1745 Silver Eagle Drive Elko, NV 89801 Ph: (775) 738-8889 Fx: (775) 753-5439
Ely Shoshone Council Diana Buckner-Chairperson, Ron Apodaca-Vice-Chair 400 B Newe View Ely, NV 89301 Ph: (775) 289-3013 Fx: (775) 289-3237	Fallon Paiute Shoshone Tribes Alvin Moyle-Chairman, Len George-Vice-Chair 565 Rio Vista Road. Fallon NV, 89406 Ph: (775) 423-6075 Fx: (775) 423-5202	Ft. McDermitt Pai-Sho Tribes Karen Critcher-Chairperon, Robert Garfield-Vice Chair P.O Box 457 McDermitt, NV 89421 Ph: (775) 532-8259 Fx: (775) 532-8487/8060
Goshute Business Council Rupert Steele,-Chairman, Edwin Naranjo-Vice Chair P.O Box 6104 Ibapah, UT 84034 Ph: (435) 234-1138 Fx: (435) 234-1162	Las Vegas Paiute Tribe.....Alfreda L Mitre-Chairperson, Benny Tso-Vice Chair One Paiute Drive Las Vegas, NV 89106 Ph: (702) 386-3926 Fx: (702) 383-4019	Lovelock Paiute Tribe...Alfred Happy Sr.-Chairman, Richard Happy-Vice Chairman P.O Box 878 Lovelock, NV 89419 Ph: (775) 273-7861 Fx: (775) 273-1144
Moapa Business Council... Dalton Tom-Chairman, Kami Miller-Vice -Chair P.O. Box 340 Moapa, NV 89025 Ph: (702) 865-2787 Fx: (702) 865-2875	Pyramid Lake Paiute Tribe...Norman Harry-Chairman, Randolph Tobey-Vice-Chair P.O. box 256 Nixon, NV 89424 Ph: (775) 574-1000 Fx: (775) 574-1008	Reno-Sparks Indian Colony Arlan D. Melendez-Chairman, Doug Gardipe-Vice-Chair 98 Colony Road Reno, NV 89506 Ph: (775) 329-2936 Fx: (775) 329-8710

Great Basin Tribes		
South Fork Band Council Ronnie Woods-Chairman, Wilfred Grady-Vice-Chair 21 Lee B-13 Spring Creek, NV 89815 Ph:(775) 744-4273 Fx: (775) 744-4523	Stewart Community Council Wanda E. Batchelor-Chairperson, Courtney Hardin-Vice-Chair 5300 Snyder Avenue Carson City, NV 89701 Ph: (775) 883-7794 Fx: (775) 883-5679	Summit Lake Paiute Tribe Arthur Brown-Chairman, Jerri Laynn Barlese-Vice-Chairman 653 Anderson Street Winnemucca, NV 89445 Ph: (775) 623-5151 Fx: (775) 623-0558
Te-Moak Tribal Council Hugh Stevens--Chairman, Brandon Reynolds-Vice Chair 525 Sunset Street Elko, NV 89801 Ph: (775) 738-9251 Fx: (775) 752-2345	Walker River Paiute Tribe...Genia Williams-Chairperson, Vice-Chair Miranda Quintero P.O Box 220 Schurz, NV 89427 Ph: (775) 772-2306/884-3751 Fx: (775) 773-2585	Washoe Tribal Council A Brian Wallace-Chairman, Anthony Smokey-Vice-Chair 919 Highway 395 South Gardnerville, NV 89410 Ph: (775) 265-4191/883-1446 Fx; (775)265-6240
Wells Band Council Kristi Begay-Chairperson, Steve Brady-Vice-Chair P.O. Box 809 Wells, NV 89835 Ph: (775) 752-3045 Fx: (775) 752-2179	Winnemucca Colony Council Chairperson.....Vice-Chair P.O Box 1370 Winnemucca, NV 89446 Ph: (775) 623-0888 Fx: (775) 623-6918	Woodfords Community Council Mahlon Machada-Chairman, Beau Medicine Crow-Vice-Chair 96 Washoe Blvd Markleeville, CA 96120 Ph: (530) 694-2170 Fx: (530) 694-1890
Yerington Paiute Tribe Wayne Garcia-Chairman Linda Howard, Vice-Chair 171 Cambell Lane Yerington, NV 89447 Ph: (775) 463-3301/883-3895 Fx: (775) 463-2416	Yomba Tribal Council Dennis J. Bill-Chairman, James W. Birchim-Vice-Chair HC 61 Box 6275 Austin, NV 89310 Ph: (775) 964-2463 Fx: (775) 964-2443	Timbisha Shoshone Tribe Joseph Kennedy-Chairman, Ed Beaman-Vice-Chair 785 N. Main St, Suite Q Bishop, CA 93514 Ph: (760) 873-9003 Fx: (760) 873-9004

Appendix B Shared Systems

Detailed information on shared systems available for use within the region is listed in subsequent pages of Appendix B. The table below lists the shared system(s).

Table B - 1 Northeastern Nevada Region Shared System(s)

Radio System Name	Make / Model	Type	Frequency Band	Owning Agency	Service Area
NSRS	Tyco Electronics	EDACS	800 MHz	NSRS	Statewide

B.1 NSRS

Responsible Agency

This radio system is owned by NSRS, and managed in the area addressed by this RTICP by NDOT.

Name: Ken Wiley
Title: NDOT District 3 Communications Supervisor
Phone: (775) 777-2700
24/7 Phone: (775) 777-2748
Email: kwiley@dot.state.nv.us

Number of Radios

No. of Mobile Radios on this System:	
No. of Portable Radios on this System:	

System Type

Radio System Make:	M/A COM
Trunked / Conventional/Both:	Trunked
Radio System Model:	EDACS Wide Area, Pro-Voice
Radio System Frequency Band:	800MHz
P25 Compliancy:	No
Number of Channels:	Average of 5 per site
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Narrowband
Voted:	
Simulcast:	No, Multisite

Service area

This shared system covers the State of Nevada. The number of channels is an estimate. Channels are distributed among the 90 sites across Nevada. Each site has a max channel capacity.

Participating Agencies

- Office of the Attorney General
- Nevada Secretary of State

- Nevada Department of Agriculture
- Nevada Department of Corrections
- Nevada Department of Information Technology
- Nevada Department of Motor Vehicles
- Nevada Department of Transportation
- Nevada Department of Public Safety
- Nevada Division of Emergency Management
- Nevada Highway Patrol
- Nevada Division of Investigations
- Nevada Parole and Probation
- Nevada State Fire Marshal
- Capitol Police
- Dignitary Protection Detail
- Nevada Division of Forestry
- Nevada National Guard
- University of Nevada, Las Vegas
- Nevada State Park
- Transportation Services Authority
- Nevada Taxicab Authority
- Lakes Crossing Mental Health
- Nevada OSHA
- Nevada Power Company
- Sierra Pacific Power Company

Shared Talkgroups

Table B - 2 NSRS Shared Talkgroup Information

System	Group Name	Primary Use	Agencies Supported	Band
NSRS	Elko Law	Law Enforcement Interoperability	NHP Elko Central Dispatch	800 MHz
NSRS	Elko Operations	Public Works Interoperability	NDOT Other NDOT Districts	800 MHz
NSRS	Elko TAC3	NDOT Interoperability	NHP NDOT	800 MHz
NSRS	Ely Law	Law Enforcement Interoperability	White Pine County Dispatch	800 MHz
NSRS	Winnemucca Law	Law Enforcement Interoperability	Humboldt County Dispatch	800 MHz
NSRS	State Mutual Aid 3	Law Enforcement Interoperability	State Emergency Operations Center	800 MHz

Other Shared Channel/Talkgroup Notes:

Add any additional notes.

Appendix C Conventional Shared Systems

Detailed information on shared systems available for use within the region is listed in subsequent pages of Appendix C. The table below lists the shared system(s).

Table C - 1 Northwest Nevada Conventional Shared Systems

Radio System Name	Make / Model	Type	Frequency Band	Owning Agency	Service Area
Elko County VHF Public Safety	Motorola	Conventional	VHF	Elko County Sheriff's Office	Elko County
Eureka County VHF Public Safety	Mixed	Conventional	VHF	Eureka County	Eureka County
Humboldt County VHF Public Safety	Mixed	Conventional	VHF	Humboldt County	Humboldt County
Lander VHF Public Safety	Mixed	Conventional	VHF	Lander County	Lander County
Pershing County VHF	Mixed	Conventional	VHF	Pershing County	Pershing County
White Pine County VHF	Mixed	Conventional	VHF	White Pine County	White Pine County
Nevada Division of Forestry (NDF) VHF	Mixed	Conventional	VHF	NDF	Regional
Nevada Department of Wildlife (NDOW) VHF	Mixed	Conventional	VHF	NDOW	Statewide
Nevada Division of State Parks VHF	Mixed	Conventional	VHF	NDSP	Statewide

C.1 Elko County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Elko County Sheriff's Office

Name: Dale Lotspeich
Title: Sheriff
Phone: (775) 738-3421
24/7 Phone: (775) 777-7301
Email: elkosheriff@elkocountynv.net

Number of Radios

No. of Mobile Radios on this System:	100
No. of Portable Radios on this System:	150

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 Law, 1 public works
Encryption Protocol:	None
Year Installed:	
Repeated/Simplex/Both:	both
Analog / Digital / Both:	analog
Wideband / Narrowband / Both:	Wide with narrow by 2011
Voted:	No
Simulcast:	No

Service area

All Elko County

Participating Agencies

Elko County Sheriff's Office, Elko County Juvenile Probation, Elko County Road Department, Elko County Public Works.

Shared Channels

Table C - 2 Elko County VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored by Central Dispatch
Rocky	Law	Elko County Sheriff	155.0550	CSQ	154.0400	100.0	Wide	A	X
Elko Mtn.	Law	Elko County Sheriff	155.0550	CSQ	154.0400	107.2	Wide	A	X
Ellen Dee	Law	Elko County Sheriff	155.0550	CSQ	154.0400	127.3	Wide	A	X
Marys Mtn.	Law	Elko County Sheriff	155.0550	CSQ	154.0400	141.3	Wide	A	X
Spruce Mtn.	Law	Elko County Sheriff	155.0550	CSQ	154.0400	173.8	Wide	A	X
Penn Hill	Law	Elko County Sheriff	155.0550	CSQ	154.0400	114.8	Wide	A	X
Deer Mountain	Law	Elko County Sheriff	155.0550	CSQ	154.0400	151.4	Wide	A	X
3 Mile	Law	Elko County Sheriff	155.0550	CSQ	154.0400	82.5	Wide	A	X
Carlin Fire	Fire	Carlin Fire	154.2050	110.9	150.8050	110.9	Wide	A	
County Roads	Roads	Elko County Roads	155.7600	146.2	155.1150	146.2	Wide	A	
Elko Mtn.	Fire	City of Elko Fire	154.1300		156.0000	156.7	Wide	A	
Elko Ambulance	EMS	Elko County Ambulance	155.6700	82.5	158.8500	82.5	Wide	A	
Elko Sheriff Posse	Law	Elko Sheriff Posse	155.5500	123.0	155.5500	123.00	Wide	A	
SO Tac	Law	Elko County Sheriff Tac	153.7400	162.2	153.7400	162.2	Wide	A	
Elko County Jail	Law	Elko County Jail	155.5650	131.8	155.5650	131.8	Wide	A	
Elko PD	Law	City of Elko PD	154.8450	103.5	158.7300	103.5	Wide	A	X
Elko PD Tac	Law	City of Elko Tac	155.9400	103.5	155.9400	103.5	Wide	A	
Wendover PD	Law	City of West Wendover PD	154.7400	CSQ	159.2100	100.0	Wide	A	
Elko Fire	Fire	Elko Fire Tac	154.1300	CSQ	154.1300	156.7	Wide	A	

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The Elko County Sheriff's system includes the 155.0550 / 154.0400 frequency pair at Rocky, Eklo Mtn. Ellen Dee, Mary's Mtn, Spruce, Penn Hill, Deer and 3 Mile. The additional channels in Table C-2 are other VHF channels used by agencies in Elko County and in the incorporated cities in Elko County.

C.2 Eureka County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Eureka County Sheriff's Office

Name: Bill Tilton
Title: Undersheriff
Phone:
24/7 Phone: 775-237-5330
Address: P.O. Box 736, Eureka, NV 89316-0736
Email: wtilton.ecso@eurekanv.org

Number of Radios

No. of Mobile Radios on this System:	120
No. of Portable Radios on this System:	155

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 – Law, 1 - Fire
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband
Voted:	No
Simulcast:	No

Service area

All Eureka County

Participating Agencies

Sheriff's Office, Fire/EMS (Note: Fire/EMS in the North part of county dispatched out of NDF in Elko Central; Fire also dispatched from BLM Dispatch in Winnemucca.

Shared Channels

Table C - 3 Eureka County VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored Dispatch

C2C	Law		155.0700	Off	155.0700	Off	Wide	A	X
Prosp	Law		155.0700	Off	155.7900	100.0	Wide	A	X
Tenabo	Law		155.0700	Off	155.7900	131.8	Wide	A	X
Marys	Law		155.0700	Off	155.7900	114.8	Wide	A	X
Road-L	Roads		155.7450	Off	155.7450	Off	Wide	A	X
Road-P	Roads		155.7450	Off	158.8650	179.9	Wide	A	X
Road-M	Roads		155.7450	Off	158.9850	179.9	Wide	A	X
EUFIRE	Fire		154.1300	Off	154.1300	Off	Wide	A	X
EMS	EMS		155.1600	Off	155.1600	Off	Wide	A	X
NDF-L	Wildland Fire		158.8950	Off	158.8950	Off	Wide	A	
NDF-P	Wildland Fire		158.8950	Off	159.4500	107.2	Wide	A	

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The Sheriff's Office radios are programmed with their frequencies, White Pine, Lander and Elko Counties, Carlin PD, NDF frequencies, BLM, Union Pacific Railroad, Public Works, Nevada Fire channels, federal air to ground, and NOAA weather channel.

The fire agencies have the regional NDF and the statewide NDF frequencies, as well as the statewide fire channels and VTAC. The volunteers have the local channels, NDF, BLM, federal channels and NOAA.

EMS radios are programmed the same as the Sheriff's Office radios. Some also have BLM frequencies. Public Works radios have their frequencies, the Sheriff's frequencies, NDF, BLM and NOAA.

C.3 Humboldt County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Humboldt County Sheriff's Office

Name: Ed Kilgore
Title: Sheriff
Phone:
24/7 Phone: 775-623-6419
Address: 50 W. Fifth Street, Winnemucca, NV 89445
Email: H101@hcsonv.com

Number of Radios

No. of Mobile Radios on this System:	125

No. of Portable Radios on this System:	150

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 – Law, 1 - Fire
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband
Voted:	No
Simulcast:	No

Service area

All Humboldt County

Participating Agencies

Humboldt County Sheriff's Office, Winnemucca Police Department, Public Works EMS and ambulance, all fire districts, Bureau Indian Affairs and the school police. .

Shared Channels

Table C - 4 Humboldt County VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored Dispatch
Local 2 Rptr	Law		155.7450	167.9	153.8750	167.9	Wide	A	X
BS Channel			155.3100	Off	155.3100	Off	Wide	A	
Trident Rptr	Law		155.6250	100.0	155.0100	131.8	Wide	A	X
Blue Mtn Rptr	Law		155.6250	127.9	155.0100	131.8	Wide	A	X
Buckskin Rptr	Law		155.6250	110.9	155.0100	131.8	Wide	A	X
Golconda Rptr	Law		155.6250	114.8	155.0100	131.8	Wide	A	X
Hycroft Rptr	Law		155.6250	141.3	155.0100	131.8	Wide	A	X
Local Fire	Fire		153.7700	100.0	153.7700	100.0	Wide	A	X
Rural Fire Rptr	Fire		155.0850	100.0	155.8800	100.0	Wide	A	

Trident Rptr	Fire		153.7700	100.0	154.4150	100.0	Wide	A	X
Golconda Rptr	Fire		153.7700	114.8	154.4150	100.0	Wide	A	X
Fire Car/Car	Fire		153.7700	Off	153.7700	Off	Wide	A	X
Golconda Tac 1	Fire		153.9800	123.0	155.8050	123.0	Wide	A	X
Golconda Tac 2	Fire		153.9650	141.3	155.9400	141.3	Wide	A	X
Mutual Aid	Mutual Aid		155.4750	Off	155.4750	Off	Wide	A	X
Mutual Aid SR	Mutual Aid		155.1600	Off	155.1600	Off	Wide	A	X
Mutual Aid ICS	Mutual Aid		156.0750	Off	156.0750	Off	Wide	A	X

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The Fire radios and HCSO are programmed with 2 Mutual Aid frequencies. The Fire radios are also programmed with Fire White 1 & 2, BLM, USFS and NDF frequencies. The BLM frequencies are narrowband.

NDI (Nevada Division of Investigation) has a tri-county Narcotics Task Force in the area. These radios are programmed with the local and most mountain top repeater frequencies. These radios are P25 capable, and will be using encryption soon.

The County is building out a microwave/mesh network. They have 8 wireless mess locations covering the center of the Town to Grass Valley and the airport. They have plans to build out more mesh networks throughout the county with more repeater hops. The main application is for downloading video data from the in-vehicle camera**.**

C.4 Lander County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Lander County Sheriff's Office

Name: Robert Quick
Title:
Phone:
24/7 Phone: 775-635-1100
Address: #2 State Route 305, Battle Mountain, NV 89820
Email: rquick@landerso.org

Number of Radios

No. of Mobile Radios on this System:	45
No. of Portable Radios on this System:	90

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 (Shared by Fire, EMS and Law)
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband
Voted:	No
Simulcast:	No

Service area

All Lander County

Participating Agencies

Lander County Sheriff's Office, Fire (Battle Mountain, Austin and Kingston), EMS, and Western Shoshone Department of Public Safety (tribal).

Shared Channels

Table C - 5 Lander County VHF Shared Channel Information (Needs to be verified)

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored Dispatch
Lander Co 1	Law		154.8150				Wide	A	
Lander Co Sheriff 1	Law		155.1300	100.0			Wide	A	
Lander Co Sheriff 2	Law		155.8650	Off			Wide	A	
Lander Co Sheriff 3	Law		155.8950	179.9			Wide	A	
Lander Co Sheriff 4	Law		158.7600	Off			Wide	A	
Lander Co Roads	Roads		156.2250	Off			Wide	A	

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All

channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The Fire and EMS radios are programmed with their own tactical frequency, Sheriff's Office frequency, as well as BLM, USFS, NDF, and the White Fire and Red frequencies.

C.5 Pershing County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Pershing County Sheriff's Office

Name: Kayla Stevens
Title: Dispatch Supervisor
Phone:
24/7 Phone: 775-273-2641
Email:

Number of Radios

No. of Mobile Radios on this System:	60
No. of Portable Radios on this System:	50

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 – Law, Fire and EMS
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband (Narrowband Capable)
Voted:	No
Simulcast:	No

Service area

All Pershing County

Freq	PL/M	Ty	Channel	Notes
154.430				County Fire Disp.
154.965				County Police Disp.

Lovelock

Freq	PL/M	Ty	Channel	Notes
155.430				Police Disp.

Participating Agencies

Pershing County Sheriff's Office, Lovelock Police Department, Tribal, Fire, Medical, Fallon Tribal and State Parks.

Shared Channels

Table C - 6 Pershing County VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored Dispatch
Local	Fire		154.4300		154.4300		Wide	A	
Toulon Peak	Fire		154.4300		153.8900		Wide	A	
Mount Moses	Law		154.9650		155.8300	114.8	Wide	A	
Winnemucca Mtn.	Law		154.9650	100	155.8300	100.0	Wide	A	
Toulon Peak	Law		154.9650	179.9	155.8300	167.9	Wide	A	
Local	Law		154.9650	167.9	154.9650	167.9	Wide	A	
Dispatch	Dispatch		155.4300				Wide	A	

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The radios used by the County can hold approximately 100 channels. They are programmed with the channels for all the counties in the state using VHF, as well as mutual aid, NDOW, State Parks, NDF, and BLM.

The county also has a mobile repeater for temporary coverage. It has batteries and solar power. It is used for Burning Man, which occurs in the Black Rock Desert in northwest Pershing County. The County Sheriff's Office is responsible for law enforcement at Burning Man. It requires 8 people for 11 – 14 days.

C.6 White Pine County VHF Public Safety

Responsible Agency

This radio system is owned or managed by: White Pine County Sheriff's Office

Name: Dan Watts
Title: Sheriff
Phone:
24/7 Phone: 775-289-4833
Address: 1785 Great Basin Blvd, Ely, NV 89301
Email: sheriffwatts@mwpower.net

Number of Radios

No. of Mobile Radios on this System:	60
No. of Portable Radios on this System:	80

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1 – Law, 1 - Fire
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	
Analog / Digital / Both:	
Wideband / Narrowband / Both:	
Voted:	
Simulcast:	

Service area

All White Pine County

Participating Agencies

White Pine County Sheriff's Office, Ely Volunteer Fire Department and the White Pine Fire District. The volunteer fire departments are: McGill, Lund, Ruth, Baker, Cold Creek, Lacawanna, and Cherry Creek, Search and Rescue, the jail, the court bailiffs

(simplex frequency), and the juvenile probation officers. The following tribal police departments are also dispatched on the sheriff's frequency: Ely-Shoshone, Duck Water Shoshone, and Ghoshute.

Shared Channels

Table C - 7 White Pine County VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored Dispatch
Victoria (Bald) Mt	Law		155.8050	100.0	155.1000	100.0	Wide	A	X
Kimberly Pk	Law		155.8050	127.3	155.1000	127.3	Wide	A	X
Cave Mtn	Law		155.8050	114.8	155.1000	114.8	Wide	A	X
White Pine SO C/C	Law		155.1000	Off	155.1000	Off	Wide	A	
Ely FD	Fire		154.4000	Off	154.4000	Off	Wide	A	X
Mutual Aid	Mutual Aid		155.4750	Off	155.4750	Off	Wide	A	
Local	Fire District		159.1800		159.1800		Wide	A	
Kimberly Pk	Fire District		159.1800		153.9650		Wide	A	
Cave Mtn.	Fire District		159.1800		153.9650		Wide	A	
Kings Mtn.	Fire District		159.1800		153.9650		Wide	A	
Currant Summit	Fire District		159.1800		153.9650		Wide	A	
McGill	Fire District		159.1800		153.9650		Wide	A	
Victoria (Bald) Mtn.	Fire District		159.1800		153.9650		Wide	A	

The convention calls for frequency lists to show four digits after the decimal place. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

NOTES:

The Sheriff's Office radios are programmed with their frequencies and repeater sites, as well as the following: state wide mutual aid channel; Ely Fire Department; the main frequencies for the surrounding counties of Lincoln, Eureka, Nye, Elko; Millard and Juab Counties in Utah, and the local frequencies for State Parks, NDF, NDOW, NHP, BLM, and USFS-Humboldt; and the Weather.

The White Pine County Fire District has recently formed their own fire district. Previously fire services were managed by the Nevada Division of Forestry out of Elko.

The fire radios are programmed with the state mutual aid frequency, BLM scene of action frequencies, Fire White 1, 2, 3 and 7 state TAC frequencies. They have been informed that they are not authorized to use NDF frequencies, so these have been removed from the radios.

Other fire departments programmed into the radios include Ely, Wendover, Wells, Elko, Eureka, Tonopah, Pioche, Caliente, Panaca, and Alamo in Nevada, as well as Garrison and Eskdale in Utah. The radios are also programmed with the following laws

enforcement channels: Elko, Eureka, White Pine, Nye, and Lincoln Counties in Nevada, and Millard County in Utah.

C.7 NDF VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Nevada Division of Forestry

Name: Dave Sanger
Title: Communications System Manager
Phone:
24/7 Phone: 775-753-0304
Address: 885 Eastlake Blvd., Carson City, NV 89704
Email: dlsanger@forestry.nv.gov

Number of Radios

No. of Mobile Radios on this System:	250
No. of Portable Radios on this System:	300

System Type

Radio System Make:	Motorola
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	1
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband
Voted:	No
Simulcast:	No

Service area

Northeast Region

Participating Agencies

NDF.

Shared Channels

Table C - 8 NDF VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored by Interagency Dispatch
NDF Main	Wildland Fire		158.8950	Off	158.8950	Off	Wide	A	X
NDF Red	Wildland Fire		159.3450	Off	159.3450	Off	Wide	A	X
Northern									
McClellan Peak	Wildland Fire		158.895		159.4500	107.2	Wide	A	
Peavine Peak	Wildland Fire		158.895		159.4500	118.8	Wide	A	
Snow Valley	Wildland Fire		158.895		159.4500	127.3	Wide	A	
Pine Nut	Wildland Fire		158.895		159.4500	136.5	Wide	A	
Eagle Peak	Wildland Fire		158.895		159.4500	146.2	Wide	A	
Virginia Peak	Wildland Fire		158.895		159.4500	94.8	Wide	A	
Western									
Penn Hill	Wildland Fire		158.895		159.4500	107.2	Wide	A	X
Knoll Mtn	Wildland Fire		158.895		159.4500	118.8	Wide	A	X
Elko Mtn	Wildland Fire		158.895		159.4500	127.3	Wide	A	X
Marys Mt	Wildland Fire		158.895		159.4500	118.8	Wide	A	X
Gamble Ranch	Wildland Fire		158.895		159.4500	136.5	Wide	A	X
Mt. Tenabo	Wildland Fire		158.895		159.4500	136.5	Wide	A	X
Spruce Mtn	Wildland Fire		158.895		159.4500	146.2	Wide	A	X
Rocky Point	Wildland Fire		158.895		159.4500	94.8	Wide	A	X
Deer Mtn	Wildland Fire		158.895		159.4500	88.5	Wide	A	X
Kimberly	Wildland Fire		158.895		159.4500	100.0	Wide	A	X
Cave Mtn	Wildland Fire		158.895		159.4500	88.5	Wide	A	X
McGill	Wildland Fire		158.895		159.4500	136.5	Wide	A	X
Currant Mtn	Wildland Fire		158.895		159.4500	94.8	Wide	A	X
Kings Mtn	Wildland Fire		158.895		159.4500	136.5	Wide	A	X
Prospect Pk	Wildland Fire		158.895		159.4500	107.2	Wide	A	X
Winnemucca Mtn	Wildland Fire		158.895		159.4500	88.5	Wide	A	X
Maggies Peak	Wildland Fire		158.895		159.4500	Off	Wide	A	X
Star Peak	Wildland Fire		158.895		159.4500	Off	Wide	A	X

NOTES:

The subscriber equipment is programmed with NDF frequencies, USFS, BLM, aviation (air to ground) and frequencies of county and city cooperators. The radios are also programmed with the Fire White 1 - 4 and Red 1 - 4 tactical channels.

NDOW and State Parks radios are programmed with NDF frequencies. Cooperators also program their radios with NDF frequencies.

They have one command trailer they share with State Parks. It is equipped with 2 NDF mobiles, 2 State Parks mobiles, whip antennas, router for networking and Ethernet available, generator, air conditioning, galley, restroom facilities, and a conference room. Dispatch should be contact to deploy.

C.8 NDOW VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Nevada Department of Wildlife

Name: Eric Eggen
Title: Communications System Manager
Alternate: Corrine Ookinda, Public Safety Dispatch Supervisor
Phone:
24/7 Phone: (775) 688-1500
Address: 1100 Valley Road, Reno, Nevada 89512
Email: dlsanger@forestry.nv.gov

Number of Radios

No. of Mobile Radios on this System:	200
No. of Portable Radios on this System:	50

System Type

Radio System Make:	
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF
P25 Compliancy:	No
Number of Channels:	2
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Repeated
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband
Voted:	No
Simulcast:	No

Service area

Statewide

Participating Agencies

NDOW.

Shared Channels

Table C - 9 NDOW VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored by Reno Dispatch
Western									
Virginia Peak Rptr	Public Safety	NDOW	151.1600	123.0	151.4750	67.0	Wide	A	X
Fox Mtn	Public Safety	NDOW	151.1600	94.8	151.4750	67.0	Wide	A	X
Snow Valley	Public Safety	NDOW	151.1600	117.8	151.4750	67.0	Wide	A	X
Cory Peak	Public Safety	NDOW	151.1600	85.4	151.4750	67.0	Wide	A	X
Winnemucca Mtn rpt	Public Safety	NDOW	151.1600	123.0	151.4750	110.9	Wide	A	X
Maggie Peak	Public Safety	NDOW	151.4900	88.5	151.1600	173.8	Wide	A	X
Eastern									
Elko Mtn Rpt	Public Safety	NDOW	151.1600	123.0	151.4750	74.4	Wide	A	X
Spruce Mtn	Public Safety	NDOW	151.1600	97.4	151.4750	74.4	Wide	A	X
Knoll Mtn	Public Safety	NDOW	151.1600	85.4	151.4750	74.4	Wide	A	X
Jacks Peak	Public Safety	NDOW	151.1600	100.0	151.4750	74.4	Wide	A	X
Mt Moses	Public Safety	NDOW	151.1600	203.5	151.4750	74.4	Wide	A	X
Mt Lewis	Public Safety	NDOW	151.1600	203.5	151.4750	74.4	Wide	A	X
Austin Pk	Public Safety	NDOW	151.1600	103.5	151.4750	74.4	Wide	A	X
Deer Mtn	Public Safety	NDOW	151.1600	203.5	151.4750	74.4	Wide	A	X
Cave Mtn Rpt	Public Safety	NDOW	151.1600	123.0	151.4750	67.0	Wide	A	X
Prospect Peak	Public Safety	NDOW	151.1600	91.5	151.4750	67.0	Wide	A	X
Currant	Public Safety	NDOW	151.1600	94.8	151.4750	67.0	Wide	A	X
Southern									
Angels Pk Rpt	Public Safety	NDOW	151.1600	123.0	151.4750	79.7	Wide	A	X
Highland Peak	Public Safety	NDOW	151.1600	88.5	151.4750	79.7	Wide	A	X
Mt Perkins	Public Safety	NDOW	151.1600	94.8	151.4750	79.7	Wide	A	X
DRI Mtn	Public Safety	NDOW	151.1600	107.2	151.4750	79.7	Wide	A	X
Mt Wilson	Public Safety	NDOW	151.1600	85.4	151.4750	79.7	Wide	A	X
Montezuma Pk Rpt	Public Safety	NDOW	151.1600	123.0	151.4750	79.7	Wide	A	X

NOTES:

NDOW is also licensed for two mobile simplex frequencies used statewide.

All radios, both mobiles and portables, are programmed with VHF frequencies for the following agencies:

- Nevada Department of Forestry
- Nevada State Parks
- All Sheriffs' frequencies except Washoe County, Clark County and Metro Las Vegas
- Washoe Search and Rescue
- NPS
- BLM
- U.S. Forest Service
- U.S. Fish and Wildlife
- Fish and Game agencies from California, Idaho, Utah, and Arizona. These agencies also have NDOW frequencies.

C.9 Nevada State Parks VHF Public Safety

Responsible Agency

This radio system is owned or managed by: Nevada Division of State Parks

Name: Steven Silva
Title: Senior Law Enforcement Specialist
Alternate: Dave Morrow, State Parks Administrator
Guy Dudley, State Parks Radio Technician
Phone:
24/7 Phone: (775) 684-2770
Address: 901 S. Stewart St, Suite 5005, Carson City, NV 89701-5248
Email: sbsilva@parks.nv.gov

Number of Radios

No. of Mobile Radios on this System:	150
No. of Portable Radios on this System:	131

System Type

Radio System Make:	
Trunked / Conventional/Both:	Conventional
Radio System Model:	
Radio System Frequency Band:	VHF

P25 Compliancy:	No
Number of Channels:	3
Encryption Protocol:	
Year Installed:	
Repeated/Simplex/Both:	Simplex
Analog / Digital / Both:	Analog
Wideband / Narrowband / Both:	Wideband (Some Narrowband capable)
Voted:	No
Simulcast:	No

Service area

Statewide

Participating Agencies

Nevada Division of State Parks.

Shared Channels

Table C - 10 Nevada State Parks VHF Shared Channel Information

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M	Monitored by Dispatch
SP-1 Snow Valley Peak	NDSP Operation	Lake Tahoe / Wide Area	151.3400	None	159.3750	131.8	Wide	A	
SP-1 Squaw Peak	NDSP Operation	Ely / Wide Area	151.3400	None	159.3750	131.8	Wide	A	
SP-1 Highland Peak	NDSP Operation	Pioche / Wide Area	151.3400	None	159.3750	131.8	Wide	A	
SP-1 Apex	NDSP Operation	Las Vegas / Wide Area	151.3400	None	159.3750	131.8	Wide	A	
SP-2 Simplex Channel	NDSP Operation	Statewide	151.3400	None	151.3400	131.8	Wide	A	
SP-3 Simplex Channel	Tactical Operation	Statewide	151.2950	None	151.2950	131.8	Wide	A	
SP-4 Lahontan SRA	NDSP Operation	Lahontan Peak / Wide Area	151.3400	None	159.3750	114.8	Wide	A	
SP-4 Spring Mtn Ranch SP	NDSP Operation	SMR / In Park	151.3400	None	159.3750	114.8	Wide	A	
SP-4 Valley of Fire SP	NDSP Operation	VOF / In Park	151.3400	None	159.3750	114.8	Wide	A	
SP-4 Sand Harbor SP	NDSP Operation	Sand Harbor / In Park	151.3400	None	159.3750	114.8	Wide	A	
SP-5 Future Use	NDSP Operation	TBD	151.3400	None	159.3750	100.0	Wide	A	
SP-6 Mt Perkins, AZ	NDSP Operation	Laughlin / Wide Area	151.3400	None	159.3750	88.5	Wide	A	

NOTES:

Nevada Division of State Parks is dispatched by Nevada DPS. Because they are dispatched by DPS, they have 41 800 MHz mobiles and 41 800 MHz portables.

State Park Police Officers have interoperability with the following agencies via channels programmed into their radios: NDF, NDOW, BLM, USFS, NPS, and Sheriff's Offices and local Fire Departments in counties where State Parks are located. Their radios are also programmed with the State and Federal Mutual Aid Channels, White Fire 1 & 2, and National SAR.

NDSP uses open receive on its base stations, mobile, and portable radios but transmits the tones to accommodate co-operators that have toned the NDSP channels in their radios

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Appendix D Shared Interoperability Channels

Detailed information on shared frequencies/channels available for use within the region is listed in the following tables.

Table D-1 shows the Nevada Tactical Crossband Repeater frequencies for both VHF and 800 MHz. The table is arranged by site and each of the six frequencies for each site are listed. The channels are all narrowband and use the standard National Interoperability PL tone of 156.7.

In the Agencies supported column the following abbreviations are used:

NW Nevada – Indicates the channel is available for all of Northwest Nevada for those agencies that have a signed MOU with NDOT to use the frequencies.

Signed MOU – Indicates the channel is available for use around the location of the site for those agencies that have a signed MOU with NDOT.

Statewide - Indicates the channel is available throughout the State of Nevada for those agencies that have a signed MOU with NDOT to use the frequencies.

Tactical Use – Indicates that a VHF calling channel from another region was reused as a tactical channel in another region. This was done so that the total number of VHF channels could be minimized.

Table D - 1 Nevada Tactical Crossband Repeaters

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M
Nevada Tactical Crossband Repeater Interoperability Channels									
NCALL1	Bald Mountain	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC10	Bald Mountain	Interoperability	Signed MOU	153.8750	CSQ	155.4450	156.7	Narrow	A
NTAC18	Bald Mountain	Interoperability	Signed MOU	159.0525	CSQ	154.9650	156.7	Narrow	A
8CALL90	Bald Mountain	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Bald Mountain	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Bald Mountain	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL1	Eagle Ridge	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC12	Eagle Ridge	Interoperability	Signed MOU	153.9200	CSQ	155.5875	156.7	Narrow	A
NTAC21	Eagle Ridge	Interoperability	Signed MOU	159.1500	CSQ	155.1450	156.7	Narrow	A
8CALL90	Eagle Ridge	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Eagle Ridge	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Eagle Ridge	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	Fairview	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC17	Fairview	Interoperability	Signed MOU	159.0450	CSQ	155.1300	156.7	Narrow	A
NTAC3	Fairview	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
8CALL90	Fairview	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Fairview	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M
8TAC92	Fairview	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	Peavine Ridge	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC10	Peavine Ridge	Interoperability	Signed MOU	153.8750	CSQ	155.4450	156.7	Narrow	A
NTAC20	Peavine Ridge	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	Peavine Ridge	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Peavine Ridge	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Peavine Ridge	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	Pilot Peak	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC11	Pilot Peak	Interoperability	Signed MOU	153.9050	CSQ	155.3700	156.7	Narrow	A
NTAC15	Pilot Peak	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
8CALL90	Pilot Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Pilot Peak	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Pilot Peak	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	Pine Nut Mtn	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC4	Pine Nut Mtn	Interoperability	Signed MOU	151.3100	CSQ	154.9050	156.7	Narrow	A
NTAC22	Pine Nut Mtn	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Pine Nut Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Pine Nut Mtn	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Pine Nut Mtn	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL1	Toulon Peak	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC10	Toulon Peak	Interoperability	Signed MOU	153.8750	CSQ	155.4450	156.7	Narrow	A
NTAC20	Toulon Peak	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	Toulon Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Toulon Peak	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Toulon Peak	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	TV Hill	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC9	TV Hill	Interoperability	Signed MOU	153.8450	CSQ	156.1350	156.7	Narrow	A
NTAC20	TV Hill	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	TV Hill	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	TV Hill	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	TV Hill	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Austin Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC2	Austin Mtn	Interoperability	Signed MOU	151.2650	CSQ	154.1000	156.7	Narrow	A
NTAC6	Austin Mtn	Interoperability	Signed MOU	151.4300	CSQ	154.9050	156.7	Narrow	A
8CALL90	Austin Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Austin Mtn	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Austin Mtn	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Cave Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC5	Cave Mtn	Interoperability	Signed MOU	151.3550	CSQ	155.8200	156.7	Narrow	A
NTAC21	Cave Mtn	Interoperability	Signed MOU	159.1500	CSQ	155.1450	156.7	Narrow	A
8CALL90	Cave Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M
8TAC91	Cave Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Cave Mtn	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Elko Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC5	Elko Mtn	Interoperability	Signed MOU	151.3550	CSQ	155.8200	156.7	Narrow	A
NTAC19	Elko Mtn	Interoperability	Signed MOU	159.0750	CSQ	154.3400	156.7	Narrow	A
8CALL90	Elko Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Elko Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Elko Mtn	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Mary's Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC16	Mary's Mtn	Interoperability	Signed MOU	159.0150	CSQ	155.7300	156.7	Narrow	A
NTAC22	Mary's Mtn	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Mary's Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Mary's Mtn	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Mary's Mtn	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Peavy Hill	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NCALL3	Peavy Hill	Interoperability	Signed MOU Tactical Use	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC21	Peavy Hill	Interoperability	Signed MOU	159.1500	CSQ	155.1450	156.7	Narrow	A
8CALL90	Peavy Hill	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Peavy Hill	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Peavy Hill	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Prospect Peak	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC5	Prospect Peak	Interoperability	Signed MOU	151.3550	CSQ	155.8200	156.7	Narrow	A
NTAC21	Prospect Peak	Interoperability	Signed MOU	159.1500	CSQ	155.1450	156.7	Narrow	A
8CALL90	Prospect Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Prospect Peak	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Prospect Peak	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Sober Peak	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC15	Sober Peak	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
NTAC17	Sober Peak	Interoperability	Signed MOU	159.0450	CSQ	155.1300	156.7	Narrow	A
8CALL90	Sober Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Sober Peak	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Sober Peak	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Squaw	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC13	Squaw	Interoperability	Signed MOU	158.7525	CSQ	155.0850	156.7	Narrow	A
NTAC19	Squaw	Interoperability	Signed MOU	159.0750	CSQ	154.3400	156.7	Narrow	A
8CALL90	Squaw	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Squaw	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Squaw	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Winnemucca Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC2	Winnemucca Mtn	Interoperability	Signed MOU	151.2650	CSQ	154.1000	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M
NTAC19	Winnemucca Mtn	Interoperability	Signed MOU	159.0750	CSQ	154.3400	156.7	Narrow	A
8CALL90	Winnemucca Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Winnemucca Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Winnemucca Mtn	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL3	Fitzpatrick	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC3	Fitzpatrick	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC23	Fitzpatrick	Interoperability	Signed MOU	159.2475	CSQ	154.3250	156.7	Narrow	A
8CALL90	Fitzpatrick	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Fitzpatrick	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Fitzpatrick	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL3	Highland Peak	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC5	Highland Peak	Interoperability	Signed MOU	151.3550	CSQ	155.8200	156.7	Narrow	A
NTAC13	Highland Peak	Interoperability	Signed MOU	158.7525	CSQ	155.0850	156.7	Narrow	A
8CALL90	Highland Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Highland Peak	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Highland Peak	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL3	Warm Springs	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC15	Warm Springs	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
NTAC18	Warm Springs	Interoperability	Signed MOU	159.0525	CSQ	154.9650	156.7	Narrow	A
8CALL90	Warm Springs	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Warm Springs	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Warm Springs	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL4	Mt Brock	Interoperability	Southern Nevada	151.0850	CSQ	155.3850	156.7	Narrow	A
NTAC9	Mt Brock	Interoperability	Signed MOU	153.8450	CSQ	156.1350	156.7	Narrow	A
NTAC17	Mt Brock	Interoperability	Signed MOU	159.0450	CSQ	155.1300	156.7	Narrow	A
8CALL90	Mt. Brock	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Mt. Brock	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Mt. Brock	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Rx Tone	Wide Narrow	Mode A, D, M
Nevada Tactical Crossband Repeater Interoperability Channels (Planned)									
NCALL1	Pine Grove Mtn	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC11	Pine Grove Mtn	Interoperability	Signed MOU	153.9050	CSQ	155.3700	156.7	Narrow	A
NTAC14	Pine Grove Mtn	Interoperability	Signed MOU	158.7525	CSQ	155.7300	156.7	Narrow	A
8CALL90	Pine Grove Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Pine Grove Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Pine Grove Mtn	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL1	Poito Valley	Interoperability	NW Nevada	151.0700	CSQ	156.1800	156.7	Narrow	A
NTAC15	Poito Valley	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
NTAC22	Poito Valley	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Poito Valley	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Poito Valley	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Poito Valley	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	3 Mile Hill	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC20	3 Mile Hill	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
NTAC23	3 Mile Hill	Interoperability	Signed MOU	159.2475	CSQ	154.3250	156.7	Narrow	A
8CALL90	3 Mile Hill	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	3 Mile Hill	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	3 Mile Hill	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Argenta	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC3	Argenta	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC20	Argenta	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	Argenta	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Argenta	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Argenta	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Diamond Peak	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC15	Diamond Peak	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
NTAC20	Diamond Peak	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	Diamond Peak	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Diamond Peak	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Diamond Peak	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Ellen Dee	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC13	Ellen Dee	Interoperability	Signed MOU	158.7525	CSQ	155.0850	156.7	Narrow	A
NTAC20	Ellen Dee	Interoperability	Signed MOU	159.0825	CSQ	156.0450	156.7	Narrow	A
8CALL90	Ellen Dee	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Ellen Dee	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Ellen Dee	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Mt Moses	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC16	Mt Moses	Interoperability	Signed MOU	159.0150	CSQ	155.7300	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Rx Tone	Wide Narrow	Mode A, D, M
NTAC22	Mt Moses	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Mt. Moses	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Mt. Moses	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Mt. Moses	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Penn Hill	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC15	Penn Hill	Interoperability	Signed MOU	158.7600	CSQ	155.5800	156.7	Narrow	A
NTAC22	Penn Hill	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Penn Hill	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Penn Hill	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Penn Hill	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL2	Spruce Mtn	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC3	Spruce Mtn	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC22	Spruce Mtn	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Spruce Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Spruce Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Spruce Mtn	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL2	Trident Peak	Interoperability	NE Nevada	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC16	Trident Peak	Interoperability	Signed MOU	159.0150	CSQ	155.7300	156.7	Narrow	A
NTAC22	Trident Peak	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Trident	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Trident	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Trident	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL3	Caliente	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NCALL2	Caliente	Interoperability	Signed MOU Tactical Use	151.1000	CSQ	154.6950	156.7	Narrow	A
NTAC23	Caliente	Interoperability	Signed MOU	159.2475	CSQ	154.3250	156.7	Narrow	A
8CALL90	Caliente	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Caliente	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Caliente	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL3	Currant Summit	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC3	Currant Summit	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC23	Currant Summit	Interoperability	Signed MOU	159.2475	CSQ	154.3250	156.7	Narrow	A
8CALL90	Currant Summit	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Currant Summit	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Currant Summit	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL3	Mesquite	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC5	Mesquite	Interoperability	Signed MOU	151.3550	CSQ	155.8200	156.7	Narrow	A
NTAC22	Mesquite	Interoperability	Signed MOU	159.1800	CSQ	154.8300	156.7	Narrow	A
8CALL90	Mesquite	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Mesquite	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Mesquite	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A

Channel Name	Site Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Rx Tone	Wide Narrow	Mode A, D, M
NCALL3	Mt. Montgomery	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC3	Mt. Montgomery	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC23	Mt. Montgomery	Interoperability	Signed MOU	159.2475	CSQ	154.3250	156.7	Narrow	A
8CALL90	Mt. Montgomery	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Mt. Montgomery	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Mt. Montgomery	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL3	Overton	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC1	Overton	Interoperability	Signed MOU	151.2050	CSQ	154.1750	156.7	Narrow	A
NTAC7	Overton	Interoperability	Signed MOU	151.4300	CSQ	155.5800	156.7	Narrow	A
8CALL90	Overton	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC93	Overton	Interoperability	Signed MOU	852.5125	CSQ	807.5125	156.7	Narrow	A
8TAC94	Overton	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A
NCALL3	Pahranagat	Interoperability	Southern Nevada	159.4200	CSQ	154.0100	156.7	Narrow	A
NTAC3	Pahranagat	Interoperability	Signed MOU	151.3100	CSQ	155.3550	156.7	Narrow	A
NTAC21	Pahranagat	Interoperability	Signed MOU	159.1500	CSQ	155.1450	156.7	Narrow	A
8CALL90	Pahranagat	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Pahranagat	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC92	Pahranagat	Interoperability	Signed MOU	852.0125	CSQ	807.0125	156.7	Narrow	A
NCALL4	Sunrise Mtn	Interoperability	Southern Nevada	151.0850	CSQ	155.3850	156.7	Narrow	A
NTAC8	Sunrise Mtn	Interoperability	Signed MOU	153.7850	CSQ	156.1950	156.7	Narrow	A
NTAC17	Sunrise Mtn	Interoperability	Signed MOU	159.0450	CSQ	155.1300	156.7	Narrow	A
8CALL90	Sunrise Mtn	Interoperability	Statewide	851.0125	CSQ	806.0125	156.7	Narrow	A
8TAC91	Sunrise Mtn	Interoperability	Signed MOU	851.5125	CSQ	806.5125	156.7	Narrow	A
8TAC94	Sunrise Mtn	Interoperability	Signed MOU	853.0125	CSQ	808.0125	156.7	Narrow	A

Table D - 2 Northeastern Nevada Region 800 MHz Inter-system Shared Channel(s)

Channel Name	Talkgroup ID	Primary Use	Agencies Supported	Wide Narrow	Mode A, D, M	Trunked System Type
Elko Law	Elko Law	Law Enforcement Interoperability	NHP Elko Central Dispatch	Narrow	A	EDACS 800 MHz
Elko Operations	Elko Operations	Public Works Interoperability	NDOT Other NDOT Districts	Narrow	A	EDACS 800 MHz
Elko TAC3	Elko TAC3	NDOT Interoperability	NHP NDOT	Narrow	A	EDACS 800 MHz
Ely Law	Ely Law	Law Enforcement Interoperability	White Pine County Dispatch	Narrow	A	EDACS 800 MHz
Winnemucca Law	Winnemucca Law	Law Enforcement Interoperability	Humboldt County Dispatch	Narrow	A	EDACS 800 MHz
State Mutual Aid 3	State Mutual Aid 3	Law Enforcement Interoperability	State Emergency Operations Center	Narrow	A	EDACS 800 MHz

Table D - 3 Northeastern Nevada Region VHF Inter-system Shared Channel(s)

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M
Regional Interoperability Channels								
Fire White 1	Day-Day / Incident	All Northeastern Nevada Region	154.2800	Off	154.2800	Off	Wide	A
Fire White 2	Day-Day / Incident	All Northeastern Nevada Region	155.0000	Off	155.000	Off	Wide	A
NHP Local			154.9200	Off	154.9200	Off	Wide	A
NOAA	Weather	All Northeastern Nevada Region	162.4000	Off	N/A	N/A	Wide	A
BLM Dispatch	Day-Day / Incident	CNIDC Dispatch Zone	170.0250	Off	170.0250	Off	Narrow	A
BLM SOA	Day-Day / Incident	CNIDC Dispatch Zone	171.6750	Off	171.6750	Off	Narrow	A
BLM Granite	Day-Day / Incident	CNIDC Dispatch Zone	170.02500	Off	168.3750	114.8	Narrow	A

BLM Blue Lake	Day-Day / Incident	CNIDC Dispatch Zone	170.02500	Off	168.3750	151.4	Narrow	A
BLM Gerlach	Day-Day / Incident	CNIDC Dispatch Zone	170.02500	Off	168.3750	173.8	Narrow	A
BLM New York	Day-Day / Incident	CNIDC Dispatch Zone	170.02500	Off	168.3750	Off	Narrow	A
BLM Goosie	Day-Day / Incident	CNIDC Dispatch Zone	170.02500	Off	168.3750	Off	Narrow	A
USFS Buckskin	Day-Day / Incident	CNIDC Dispatch Zone	171.4750	Off	172.2250	110.9	Wide	A
USFS Car/Car	Day-Day / Incident	CNIDC Dispatch Zone	171.4750	Off	171.4750	Off	Wide	A
Humboldt Toiyabe NF (HTNF) Austin		Signed MOU with NFS	169.8750		170.4750	131.8	Wide	A
HTFN Bunker		Signed MOU with NFS	169.8750		170.4750	156.7	Wide	A
HTNF Bald		Signed MOU with NFS	169.8750		170.4750	123.0	Wide	A
HTFN Mahogany		Signed MOU with NFS	169.8750		170.4750	110.9	Wide	A
HTFN Brock		Signed MOU with NFS	169.8750		170.4750	136.5	Wide	A
HTFN Jefferson		Signed MOU with NFS	169.8750		170.4750	167.9	Wide	A
NDOT ELKO COUNTY								
WINCAR	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	151.02500	Off	Wide	A
WINRPT	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
WINOFF	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
STNRPT	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
STNOFF	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
TRIRPT	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
TRIOFF	Day-Day / Incident	All Northeastern Nevada Region	151.02500	Off	156.10500	Off	Wide	A
EMMA	Day-Day / Incident		155.14500	Off	155.71500	192.8	Wide	A
RENCAR	Day-Day / Incident		151.07000	Off	151.07000	Off	Wide	A
COMM1	Day-Day / Incident		151.04000	Off	151.04000	Off	Wide	A
COMM 2	Day-Day / Incident		159.18000	Off	159.18000	Off	Wide	A

LEMA 1	Day-Day / Incident		155.47500	Off	155.47500	Off	Wide	A
LEMA 2	Day-Day / Incident		155.65500	Off	155.65500	Off	Wide	A
DOT MA	Day-Day / Incident		156.07500	Off	156.07500	Off	Wide	A
CSNCAR	Day-Day / Incident		150.99500	Off	150.99500	Off	Wide	A
CONST	Day-Day / Incident		151.07000	Off	156.06000	203.5	Wide	A
ELKCAR	Day-Day / Incident		151.01000	Off	151.01000	Off	Wide	A
ELKRPT	Day-Day / Incident		151.01000	Off	156.13500	67.0	Wide	A
ELKOFF	Day-Day / Incident		151.01000	Off	156.13500	71.9	Wide	A
MRYRPT	Day-Day / Incident		151.01000	Off	156.13500	74.4	Wide	A
MRYOFF	Day-Day / Incident		151.01000	Off	156.13500	77.0	Wide	A
RKYRPT	Day-Day / Incident		151.01000	Off	156.13500	79.7	Wide	A
RKYOFF	Day-Day / Incident		151.01000	Off	156.13500	82.5	Wide	A
PENRPT	Day-Day / Incident		151.01000	Off	156.13500	85.4	Wide	A
PENOFF	Day-Day / Incident		151.01000	Off	156.13500	88.5	Wide	A
L&DRPT	Day-Day / Incident		151.01000	Off	156.13500	91.5	Wide	A
L&DOFF	Day-Day / Incident		151.01000	Off	156.13500	94.8	Wide	A
VICRPT	Day-Day / Incident		151.01000	Off	156.13500	97.4	Wide	A
VIVOFF	Day-Day / Incident		151.01000	Off	156.13500	100.0	Wide	A
3MIRPT	Day-Day / Incident		151.01000	Off	156.13500	103.5	Wide	A
3MIOFF	Day-Day / Incident		151.01000	Off	156.13500	107.2	Wide	A
ELYCAR	Day-Day / Incident		151.01000	Off	151.01000	Off	Wide	A
SQWRPT	Day-Day / Incident		151.01000	Off	156.13500	162.2	Wide	A
SQWOFF	Day-Day / Incident		151.01000	Off	156.13500	179.9	Wide	A
CAVRPT	Day-Day / Incident		151.01000	Off	156.13500	167.9	Wide	A

CAVOFF	Day-Day / Incident		151.01000	Off	156.13500	203.5	Wide	A
CNTRPT	Day-Day / Incident		151.01000	Off	156.13500	192.8	Wide	A
CNTOFF	Day-Day / Incident		151.01000	Off	156.13500	136.5	Wide	A
PRSRPT	Day-Day / Incident		151.01000	Off	156.13500	156.7	Wide	A
PRSOFF	Day-Day / Incident		151.01000	Off	156.13500	186.2	Wide	A
ASTRPT	Day-Day / Incident		151.01000	Off	156.06000	151.4	Wide	A
ASTOFF	Day-Day / Incident		151.01000	Off	156.06000	146.2	Wide	A
VICELY	Day-Day / Incident		151.01000	Off	156.13500	174.8	Wide	A
NWS	Day-Day / Incident		165.40000	Off			Wide	A
NWS	Day-Day / Incident		162.55000	Off			Wide	A
NDOT ELKO INCIDENT COMMAND RADIOS (Set 1)								
ELKOFF	Reg3 Office							
ELKORDS	Reg3 Dispatch							
ELKLNST1	Crew 912							
ELKLNST2	Crew 908							
ELKLNST3	Crew 918							
ELKSHOP	Reg3 Equip Shop							
ELKMNT1	Crew 350, 351							
ELKMNT2	Crew 302, 340, 355							
ELKOPS2	Shared Use							
EMIGRANT	Crew 324							
NOFORK	Crew 327							
RUBYVAL	Crew 331							
WLS/CONT	Crew 335, 332, 322							
WENDOVER	Crew 336							
ELKLAW	Law Inter Op							
RENORD	Reg2 Dispatch							

NDOT ELKO INCIDENT COMMAND RADIOS (Set 2)								
ELYLAW	Ely Law Inter-Op							
WINNLAW	Winn Law Inter-Op							
MUTUAID1	State Mutual Aid Reg1							
MUTUAID2	State Mutual Aid Reg2							
MUTUAID3	State Mutual Aid Reg3							
NHP1	Reg3 Central Command Dispatch							
NHP2	Reg3 Central Command Dispatch							
NHP3	Reg3 Central Command Dispatch							
NHP4	Reg3 Central Command Dispatch							
NHPTAC1	Reg3 Central Command Field Talk Around							
NHPTAC2	Reg3 Central Command Field Talk Around							
NHPTAC3	Reg3 Central Command Field Talk Around							
STATEEOC	State Emergency Operations Center							
EOCTAC1	Emergency Operations Talk Around							
EOCTAC2	Emergency Operations Talk Around							
MILEOC	Military Emergency Operations							

NDOT ELKO INCIDENT COMMAND RADIOS (Set 3)								
DOTCOM	Reg3 NDOT Tech Channel							
DITCOM	Dept. of Info Tech							
RNNHP1	DPS Reg1 Dispatch							
RNNHP2	DPS Reg2 Dispatch							
RNNHP3	DPS Reg3 Dispatch							
RNNHP4	DPS Reg4 Dispatch							
STPARKS	Nevada State Parks							
WINNOFF	Reg3 NDPT Winn Office							
WINMNT	Reg3 NDOT Maint							
WINSHOP	Reg3 NDOT Repair Shop							
WINOPS1	Reg3 Shared Use NDOT							
WINOPS2	Reg3 Shared Use NDOT							
WINMNT2	Reg3 NDOT Maint.							
QR/ORVAD	Reg3 NDPT Quarn River/Orvada							
BTLMT	Reg3 NDOT Battle Mt							
ELYOFF	Reg3 NDOT Ely Office							

Table D - 4 Northeastern Nevada Region UHF Inter-system Shared Channel(s)

Channel Name	Primary Use	Agencies Supported	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Wide Narrow	Mode A, D, M

Appendix E Gateways (Pending)

Detailed information on gateways available for use within the region is listed in subsequent pages of Appendix D. The table below lists the owning or managing agency, gateway name(s), make/model and whether the device is fixed or mobile.

Table E - 1 Northeastern Nevada Region Gateway System(s)

Gateway Name	Owning Agency	Day-to-Day or Incident / Event	Make / Model	Fixed / Mobile	No. of Simultaneous Nets	No. of Ports
STR *	DPS Division of Emergency Management	Incident	Incident Command radio Interface (ICRI)	Mobile		
Elko IMC	NDOT	Incident		Console	6	N/A

E.1 STR

Equipment Location

This gateway is stored [in or at] [address], [City/County], [State], [zip code]

Responsible Agency

This gateway is owned or managed by: DPS Department of Emergency Management

Name:
Title:
Address:
Phone:
24/7 Phone:
Email:

Service Area

[Add service area information]

Participating Agencies

- [Add participating agencies]
- [Add participating agencies]

Other Gateway Notes:

- [Add notes]

E.2 Elko IMC

Equipment Location

This gateway is stored at Elko NDOT District 3 Headquarters, 1951 Idaho Street, Elko, NV, 89801

Responsible Agency

This gateway is owned or managed by: Elko NDOT District 3

Name: NDOT
Address: 1951 Idaho Street, Elko, NV, 89801
24/7 Phone: (775) 777-2700

Service Area

NDOT District 3/DPS Central Command

Participating Agencies

- Nevada Shared Radio System

Other Gateway Notes:

- There are 5 nodes (IMCs) statewide

Appendix F Radio Caches

Information on radio caches available for use within the region is listed in subsequent pages of Appendix E. The table below lists the owning or managing agency, cache, frequency band and quantity of radios in each cache.

Table F - 1 Northeastern Nevada Region Radio Cache(s)

Radio Cache Name	Make / Model	Owning / Managing Agency	Frequency Band	Type	Qty
Elko County SO	Motorola HT1000	Elko County Sheriff	VHF 150 MHz	Portable	20
Elko County SO	Motorola HT1500	Elko County Sheriff	VHF 150 MHz	Portable	10
NDOT – Elko	MA/Com LPE-200	NDOT	800 MHz	Portable	12
NDOT – Elko	Motorola MT1000	NDOT	VHF 150 MHz	Portable	12
NHP – Elko	Motorola MTS2000	NHP	VHF 150 MHz	Portable	23
DEM					

F.1 Elko County Sheriff's Office Motorola HT1000 Radio Cache

Equipment Location

This radio cache is stored at 775 West Silver Street Elko Nevada, 89801

Responsible Agency

This radio cache is owned or managed by: Elko County Sheriff

Name: Marvin E. Morton
Title: Lieutenant
Phone: (775) 340-3833
24/7 Phone: 775-340-3833
Email: mmorton@elkocountynv.net

Service Area

Nevada Statewide

System Type and Capacity

Cache Description:

Make / Model:	Motorola HT1000
Frequency Band:	VHF 150 MHz
No. of Radios in Cache:	20
No. of Available Channels:	
No. of Spare Batteries:	

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

F.2 Elko County Sheriff's Office Motorola HT1500 Radio Cache

Equipment Location

This radio cache is stored at 775 West Silver Street Elko Nevada, 89801

Responsible Agency

This radio cache is owned or managed by: Elko County Sheriff

Name: Marvin E. Morton
Title: Lieutenant
Phone: (775) 340-3833
24/7 Phone: 775-340-3833
Email: mmorton@elkocountynv.net

Service Area

Nevada Statewide

System Type and Capacity

Cache Description:

Make / Model:	Motorola HT1000
Frequency Band:	VHF 150 MHz
No. of Radios in Cache:	10
No. of Available Channels:	
No. of Spare Batteries:	

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

F.3 NDOT - Elko MA/Com LPE-200 Radio Cache

Equipment Location

This radio cache is stored at 1951 Idaho Street, Elko, NV, 89801

Responsible Agency

This gateway is owned or managed by: Elko NDOT District 3

Name: NDOT
Address: 1951 Idaho Street, Elko, NV, 89801
24/7 Phone: (775) 777-2700

Service Area

NDOT District 3/DPS Central Command

System Type and Capacity

Cache Description:

Make / Model:	LPE-200
Frequency Band:	800 MHz
No. of Radios in Cache:	12
No. of Available Channels:	TBD
No. of Spare Batteries:	TBD

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

F.4 NDOT - Elko Motorola HT1000 Radio Cache

Equipment Location

This radio cache is stored at 1951 Idaho Street, Elko, NV, 89801

Responsible Agency

This gateway is owned or managed by: Elko NDOT District 3

Name: NDOT
Address: 1951 Idaho Street, Elko, NV, 89801
24/7 Phone: (775) 777-2700

Service Area

NDOT District 3/DPS Central Command

System Type and Capacity

Cache Description:

Make / Model:	Motorola HT1000
Frequency Band:	VHF 150 Mhz
No. of Radios in Cache:	20
No. of Available Channels:	
No. of Spare Batteries:	

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

F.5 NHP Elko Motorola MTS2000 Radio Cache

Equipment Location

This radio cache is stored at 3920 East Idaho St., Elko, NV, 89801

Responsible Agency

This radio cache is owned or managed by: Nevada Highway Patrol

Name: NHP
24/7 Phone: (775) 753-1111

Service Area

NDOT District 3/DPS Central Command

System Type and Capacity

Cache Description:

Make / Model:	Motorola MTS2000
Frequency Band:	VHF 150 MHz
No. of Radios in Cache:	23
No. of Available Channels:	
No. of Spare Batteries:	

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

F.6 DEM Radio Cache

Equipment Location

This radio cache is stored at

Responsible Agency

This radio cache is owned or managed by: Department of Emergency Management

Name: Gary Derks
Title:
Phone: (775) 721-5542
24/7 Phone:
Email: gderks@dps.state.nv.us

Service Area

System Type and Capacity

Cache Description:

Make / Model:	
Frequency Band:	
No. of Radios in Cache:	
No. of Available Channels:	
No. of Spare Batteries:	

Channels Programmed on Cache

[Add text]

Radio System Name	Channel Identification

Talk Groups Programmed on Cache

[Add text]

Other Cache Notes:

[Add text]

Appendix G Mobile Communications Units (Pending)

Detailed information on mobile communications units (MCU) (also known as Mobile Communications Center (MSS) or Mobile EOC) available within the region is listed in subsequent pages of Appendix F.

Table G - 1 Northeastern Nevada Region Mobile Communications Unit(s)

Unit ID / Designator	FEMA Type	Owning Agency	Deployment Area
TBD #1	TBD	Elko County Sheriff	Statewide
TBD #2	TBD	Eureka County Sheriff	Regionwide
TBD #3	TBD	Lander County Sheriff	Regionwide
TBD #4	TBD	Pershing County Sheriff	Regionwide
TBD #5	TBD	NDF and Nevada State Park	Statewide

G.1 TBD #1 Elko County Sheriff MCU

Equipment Location

This Mobile Communications Unit equipment is stored at 775 West Silver Street Elko Nevada, 89801

Responsible Agency

This Mobile Communications Unit is owned or managed by: Elko County Sheriff

Name: Marvin E. Morton
Title: Lieutenant
Phone: (775) 340-3833
24/7 Phone: 775-340-3833
Email: mmorton@elkocountynv.net

Deployment Area

This Mobile Communications Unit is available for deployment throughout the state of Nevada.

System Type and Capacity

Unit ID / Designator:	TBD
Owning Agency	Elko County Sheriff
Type/Make/Model:	33' Command Trailer
Quantity:	1
Primary Deployment Method (Other)	Trailer
MCU Storage Address	775 West Silver Street Elko Nevada, 89801
Latitude	[Optional/Add Lat where MCU is stored]
Longitude	[Optional/Add Long where MCU is stored]
Year Activated	TBD – near future
FEMA Type	TBD
Activation Method	TBD
General Comments	Vehicle is currently under design & construction
Time to Setup	TBD
Chassis Size	33 Foot
Capability to Extend a Regional LMR System	TBD
Dispatch Capability	TBD
Number of Dispatch Consoles	TBD

SATCOM Capability	TBD
SATCOM Type	TBD
Number of Phone/Data Lines	TBD
Microwave Connectivity Capability	TBD
PBX Capability	TBD
Cellular PBX	TBD
Capability FAX Capability	TBD
Computer Server Capability	TBD
LAN Capability	TBD
Number of Workstations	TBD
Conference	TBD
Internet Access	TBD
Network Access Speed in KBPS	TBD
Video Teleconference Capability	TBD
On Scene Video Monitoring Capability	TBD
Self-contained Power Supply Capacity (Watts)	TBD
TV Reception Capability	TBD
Expandable Mast	TBD

Other Mobile Communications Unit Equipment Notes:

[Add notes]

G.2 TBD #2 Eureka County Sheriff MCU

Equipment Location

This Mobile Communications Unit equipment is stored at

Responsible Agency

This Mobile Communications Unit is owned or managed by: Eureka County Sheriff

Name: Bill Tilton
Title: Undersheriff
Phone:
24/7 Phone: 775-237-5330
Address: P.O. Box 736, Eureka, NV 89316-0736
Email: wtilton.ecso@eurekanv.org

Deployment Area

This Mobile Communications Unit is available for deployment throughout the state of Nevada.

System Type and Capacity

Unit ID / Designator:	
Owning Agency	
Type/Make/Model:	
Quantity:	
Primary Deployment Method (Other)	
MCU Storage Address	
Latitude	
Longitude	
Year Activated	
FEMA Type	
Activation Method	
General Comments	
Time to Setup	
Chassis Size	
Capability to Extend a Regional LMR System	
Dispatch Capability	

Number of Dispatch Consoles	
SATCOM Capability	
SATCOM Type	
Number of Phone/Data Lines	
Microwave Connectivity Capability	
PBX Capability	
Cellular PBX	
Capability FAX Capability	
Computer Server Capability	
LAN Capability	
Number of Workstations	
Conference	
Internet Access	
Network Access Speed in KBPS	
Video Teleconference Capability	
On Scene Video Monitoring Capability	
Self-contained Power Supply Capacity (Watts)	
TV Reception Capability	
Expandable Mast	

G.3 TBD #3 Lander County Sheriff MCU

Equipment Location

This Mobile Communications Unit equipment is stored at

Responsible Agency

This Mobile Communications Unit is owned or managed by: Lander County Sheriff

Name: Robert Quick
Title:
Phone:
24/7 Phone: 775-635-1100
Address: #2 State Route 305, Battle Mountain, NV 89820
Email: rquick@landerso.org

Deployment Area

This Mobile Communications Unit is available for deployment throughout the state of Nevada.

System Type and Capacity

Unit ID / Designator:	
Owning Agency	
Type/Make/Model:	
Quantity:	
Primary Deployment Method (Other)	
MCU Storage Address	
Latitude	
Longitude	
Year Activated	
FEMA Type	
Activation Method	
General Comments	
Time to Setup	
Chassis Size	
Capability to Extend a Regional LMR System	
Dispatch Capability	
Number of Dispatch Consoles	
SATCOM Capability	
SATCOM Type	
Number of Phone/Data Lines	
Microwave Connectivity Capability	
PBX Capability	

Cellular PBX	
Capability FAX Capability	
Computer Server Capability	
LAN Capability	
Number of Workstations	
Conference	
Internet Access	
Network Access Speed in KBPS	
Video Teleconference Capability	
On Scene Video Monitoring Capability	
Self-contained Power Supply Capacity (Watts)	
TV Reception Capability	
Expandable Mast	

G.4 TBD #2 Pershing County Sheriff MCU

Equipment Location

This Mobile Communications Unit equipment is stored at

Responsible Agency

This Mobile Communications Unit is owned or managed by: Pershing County Sheriff

Name: Kayla Stevens
Title: Dispatch Supervisor
Phone:
24/7 Phone: 775-273-2641
Email:

Deployment Area

This Mobile Communications Unit is available for deployment throughout the state of Nevada.

System Type and Capacity

Unit ID / Designator:	
Owning Agency	
Type/Make/Model:	
Quantity:	
Primary Deployment Method (Other)	
MCU Storage Address	
Latitude	
Longitude	
Year Activated	
FEMA Type	
Activation Method	
General Comments	
Time to Setup	
Chassis Size	
Capability to Extend a Regional LMR System	
Dispatch Capability	
Number of Dispatch Consoles	
SATCOM Capability	

SATCOM Type	
Number of Phone/Data Lines	
Microwave Connectivity Capability	
PBX Capability	
Cellular PBX	
Capability FAX Capability	
Computer Server Capability	
LAN Capability	
Number of Workstations	
Conference	
Internet Access	
Network Access Speed in KBPS	
Video Teleconference Capability	
On Scene Video Monitoring Capability	
Self-contained Power Supply Capacity (Watts)	
TV Reception Capability	
Expandable Mast	

G.5 TBD #2 NDF MCU

Equipment Location

This Mobile Communications Unit equipment is stored at

Responsible Agency

This Mobile Communications Unit is owned or managed by: Nevada Division of Forestry and Nevada State Parks.

Name: Dave Sanger
Title: Communications System Manager

Phone:
24/7 Phone: 775-753-0304
Address: 885 Eastlake Blvd., Carson City, NV 89704
Email: dlsanger@forestry.nv.gov

Deployment Area

This Mobile Communications Unit is available for deployment throughout the state of Nevada.

System Type and Capacity

Unit ID / Designator:	
Owning Agency	
Type/Make/Model:	
Quantity:	
Primary Deployment Method (Other)	
MCU Storage Address	
Latitude	
Longitude	
Year Activated	
FEMA Type	
Activation Method	
General Comments	
Time to Setup	
Chassis Size	
Capability to Extend a Regional LMR System	
Dispatch Capability	
Number of Dispatch Consoles	
SATCOM Capability	
SATCOM Type	
Number of Phone/Data Lines	
Microwave Connectivity Capability	
PBX Capability	
Cellular PBX	

Capability FAX Capability	
Computer Server Capability	
LAN Capability	
Number of Workstations	
Conference	
Internet Access	
Network Access Speed in KBPS	
Video Teleconference Capability	
On Scene Video Monitoring Capability	
Self-contained Power Supply Capacity (Watts)	
TV Reception Capability	
Expandable Mast	

Appendix H Policy Documents, Governing Documents, MOUs, and Agreements

Note: Reference any policy document(s), governing document(s), MOU(s) and agreement(s) by a link to a website if available.

H.1 [Name of Policy, Governing, MOU, and/or Agreement]

[Add a reference and/or link to the above named document]

Type	Agency with agreement	Description

H.2 [Name of Policy, Governing, MOU, and/or Agreement]

[Add a reference and/or link to the above named document]

Appendix I Reference Materials

Update Procedures:

This Regional TICP was written for the Northeast Region of Nevada under the direction of the NCSC. Throughout the development process it became apparent that an initial review would be required before the TICP could be fully implemented. This document contains the interoperability resources for the Region. In addition, a first pass at the rules of use and procedures for using the interoperability resources for the Region has been documented. In the case where only verbal agreements were in place, written procedures have been recorded in this document. In the case where new technologies were being installed (the Nevada Tactical Crossband Repeaters for example), procedures and rules of use were documents in the TICP and are intended to provide a starting point for developing rules of use procedures during the first revision. The following plan is provided as a guideline for the initial review of the TICP.

At first glance the TICP seems intimidating and the thought of reviewing over 100 pages is a daunting task. The following review plan is provided to reduce the time required to complete the review process. It is important to make sure that emergency responders who are actually using radio communications on a day to day basis are involved in the process.

Step 1: Establish a TICP ad-hoc committee.

Step 2: Notify Key leaders of the TICP review process

Step 3: Meet with users and technical support personnel from each agency

Step 4: Incorporate changes into the TICP

Step 5: Users and technical support personnel report back to key leaders

Step 6: TICP Review Team reports to NCSC

Step 7: Formally accept changes

Step 1: Establish the TICP Review Team

The key to a successful review process is the establishment of a review team. The team should be formed using members of the operating and technical advisory committees. 1-2 members from these committees can be used to form the 3-4 member review team. It will be important to keep the review team members small, so that busy schedules can be aligned.

Step 2: Notify key leaders of the TICP review process

After the review team has been assembled the review process can begin. The first step in the process is to notify key leaders that the TICP will be reviewed. Key leaders include the Sheriff, Police and Fire Chiefs throughout the Region and leaders from other organizations listed in the TICP. The purpose of this notification is two-fold. First, the leaders can be informed about the goals of the TICP. Second, they can be informed on

how much time will be required from their agency and what type of information will need to be reviewed. This will insure that the agency will support the review process. After key personnel have been informed, the TICP review team can begin the review process by sending invitations to each agency. Step 3 can be used as a guideline for who to invite and how many meetings should be held.

Step 3: Meet with users and technical support personnel from each agency

This step will require active participation from each agency represented in the TICP. Prior to this meeting, invitations should be sent to radio users and technical personnel from each agency. An electronic version of the TICP should be sent with the invitation along with detailed review instructions. These instructions might include the following:

You have been selected to participate in the Regional Tactical Interoperable Communications Plan (TICP) review process for Northeast Nevada. The Regional TICP contains a list of all the interoperable communication resources for the Region. Please review your specific section and be prepared to provide feedback to the review committee on _____. We anticipate that the meeting will take 2 hours. In preparation for the meeting, search through the attached Regional TICP and find all references to your agency. When you find a reference to your agency, verify the details provided to ensure they are accurate. You do not need to read the entire TICP, just the sections that refer to your agency.

The user and technical support personnel meetings should be organized by agency in most cases. For smaller agencies, they can be organized according to discipline. Keep in mind that group dynamics indicate that groups larger than 12-15 people can be difficult to manage based on the amount of detail that will have to be reviewed.

During the review meetings the review team will go line by line through the sections of the TICP that pertain to the agencies that are present. Focus on the details in the rules of use and procedures for each interoperability asset and verify all frequencies that are listed in the TICP. It will also be necessary to keep track of suggestions made that apply to all agencies represented in the TICP.

Step 4: Incorporate changes into TICP

After consensus is reached by the TICP review team and the reviewing agencies, the changes need to be incorporated into the TICP. A system to track TICP version numbers has been established so that all changes are incorporated in the TICP. Make sure to update the version number table in the front of this document as updates are made.

Step 5: Users and technical support personnel report back to key leaders

The purpose of the TICP review is to arrive at a mutually agreed summary of interoperability resources for the agencies represented in the TICP. Many of these resources are owned by individual agencies and they each have their own procedures and rules of use. However, in order to achieve interoperability, some details must be agreed upon across all agencies. One example might be which channels are required in a radio cache to insure interoperability. After the review process is complete, the users and technical staff who attended the meeting must report back to their agency so that continued support of the review process continues. The users and the technical support personnel can provide feedback and help establish support for the process.

Step 6: TICP Review Team reports to NCSC

The TICP Review Team will report back to the NCSC and provide an overview of the changes made to the TICP as a result of the TICP review. This report will also include many recommendations from the users and technical support personnel and will also likely include some decision items that will need to be considered for countywide adoption. The Review Team will present these changes and will make recommendations to NCSC.

Step 7: Formally accept changes

The final step in the process will be completed by NCSC. All accepted changes will be incorporated into the TICP and the NCSC representatives will sign the TICP.

Reference Sources

- SAFECOM. http://www.safecomprogram.gov

  The *National Emergency Communications Plan* (NECP) is a strategic plan that sets goals and identifies key national priorities to enhance governance, planning, technology, training and exercises, and disaster communications capabilities. The NECP provides recommendations, including milestones, to help emergency response providers and relevant government officials make measurable improvements in emergency communications over the next three years.

- National Public Safety Telecommunications Council (NPSTC). http://www.npstc.org

  The *National Interoperability Field Operations Guide* (NIFOG) is a collection of technical reference material for radio technicians responsible for radios that will be used in disaster response applications. The NIFOG includes information from the National Interoperability Frequency Guide (NIFG), the instructions for use of the NIFG, and other reference material; formatted as a pocket-sized guide for radio technicians to carry with them. A copy of the NIFOG can be found on the SAFECOM website: www.safecomprogram.gov

- Federal Emergency Management Agency (FEMA). http://www.fema.gov

  The Department of Homeland Security *Target Capability List* (TCL describes the capabilities related to the four homeland security mission areas: Prevent, Protect, Respond, and Recover. It defines and provides the basis for assessing preparedness. It also establishes national guidance for preparing the Nation for major all-hazards events, such as those defined by the National Planning Scenarios.

- Nevada. http://homelandsecurity.nv.gov

  The Nevada *Statewide Communications Interoperability Plan* (SCIP) is a strategic plan designed to provide a framework for the state to identify strategic initiatives intended to enhance emergency communications interoperability throughout the State. Nevada has an approved SCIP that addresses designated

critical elements for statewide interoperability and a process to frequently update the SCIP as progress is made and new initiatives emerge.

- RTICPs. Las Vegas Urban Area and Southern Nevada Regional TICP

  Northwest Nevada Regional TICP

  Northeast Nevada Regional TICP

  The Las Vegas Urban Area RTICP is available by contacting the Clark County Office of Emergency Management.

- National Interoperability Information Exchange (NIIX) website at http://www.niix.org.

  The NIIX website has actually examples of SOPs, TICPs, MOUs and other documents that various agencies around the country have developed. This is a great source of information to use as examples. You will have to create a login and password in order to access the site.

- Incident Command System (ICS) planning.

  ICS Forms can also be found at the following website: http://training.fema.gov/EMIWeb/IS/ICSResource/ICSResCntr_Forms.htm

  Note: A copy of completed ICS Forms should also be distributed to the COML.

Appendix J Incident Command System Planning

This appendix contains forms for incident command system (ICS) planning.

ICS Forms can also be found at the following website:
http://training.fema.gov/EMIWeb/IS/ICSResource/ICSResCntr_Forms.htm

Note: A copy of completed ICS Forms should also be distributed to the COML.

J.1 ICS 201

INCIDENT BRIEFING	1. INCIDENT NAME	2. DATE	3. TIME PREPARED

4. MAP SKETCH (NTS)

Function	Frequency or Talkgroup Name	Assignment	Function	Frequency or Talkgroup Name	Assignment
Command			Tactical		
			Tactical		
Tactical			Tactical		
Tactical					
Tactical			Staging		

S **Staging Area Name** **Number (H-1, etc.) and Name** H B C **Camp Name** **Hazard (Identify type, e.g. power lines)**

5. PREPARED BY (NAME AND POSITION)

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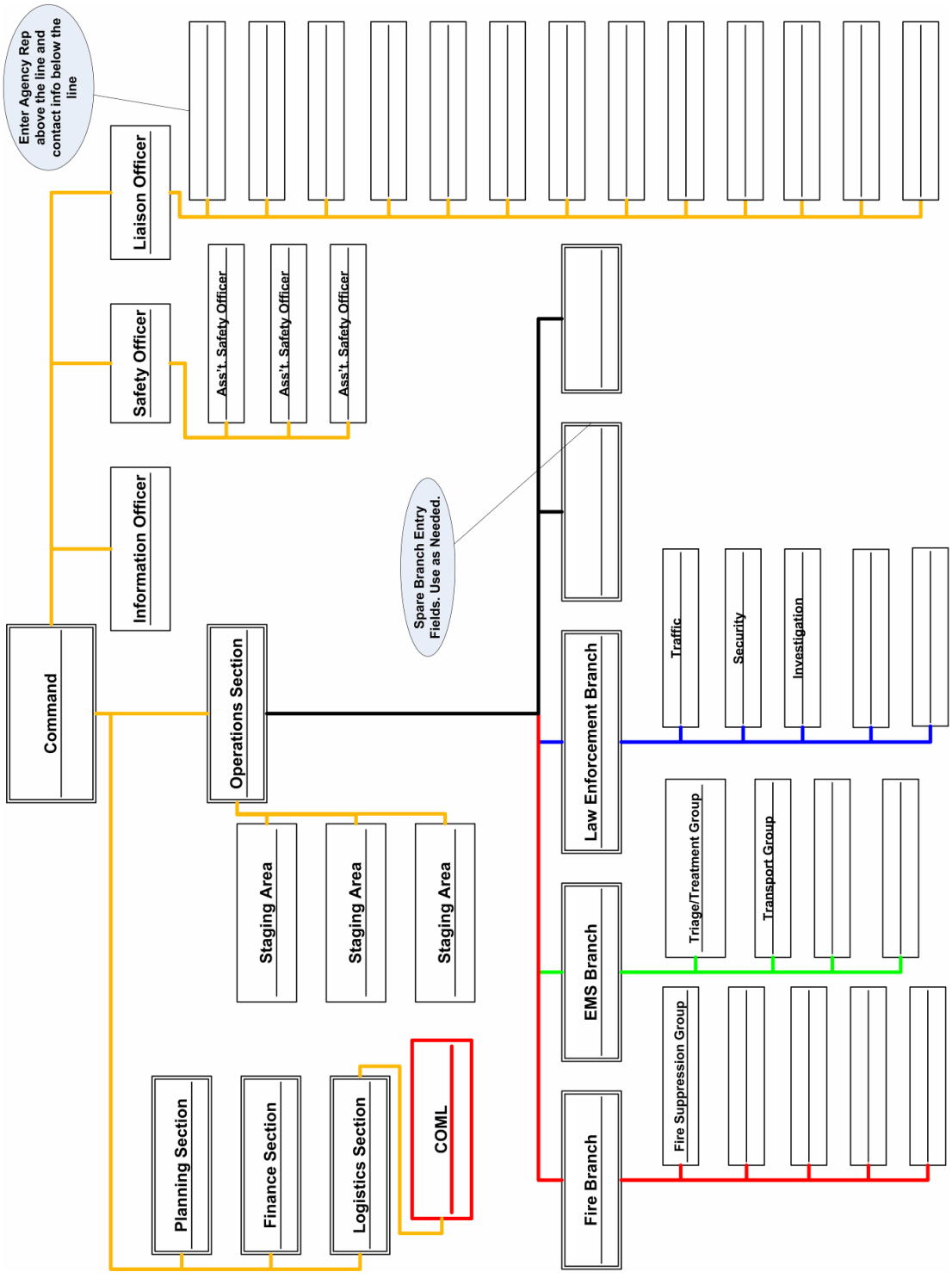
6. SUMMARY OF CURRENT ACTIONS	
Time	**Summary of Action**
	Continue on NIMS/ICS Form 214 Unit Log

7. CURRENT ORGANIZATION – Place name and contact information (talkgroup/channel name, numbers, etc.) below the dividing line.



8. RESOURCES SUMMARY

RESOURCES ORDERED	RESOURCES IDENTIFICATION	ETA	ON SCENE ✓	LOCATION/ASSIGNMENT

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Instructions for Completing the Incident Briefing (ICS 201 Form)

ITEM NUMBER	ITEM TITLE	INSTRUCTIONS
1.	Incident Name	Print the name assigned to the incident.
2.	Date Prepared	Enter date prepared (month, day, year).
3.	Time Prepared	Enter time prepared (24-hour clock).
4.	Map Sketch	Show perimeter and control lines, resources assignments, incident facilities, and other special; information on a sketch map or attached to the topographic or orthophoto map.
5.	Resources Summary	Enter the following information about the resources allocated to the incident. Enter the number and type of resource ordered.
	Resources Ordered	Enter the number and type of resource ordered.
	Resource Identification	Enter the agency three letter designator, S/T, Kind/Type and resource designator.
	ETA/On Scene	Enter the estimated arrival time and place the arrival time or a checkmark in the “on scene” column upon arrival.
	Location/Assignment	Enter the assigned location of the resource and/or the actual assignment.
6.	Current Organization	Enter on the organization chart the names of the individuals assigned to each position. Modify the chart as necessary.
7.	Summary of Current Actions	Enter the name and position of the person completing the form.
8.	Prepared By	Enter Name and position of the person completing the form.
*Note		Additional pages maybe to ICS Form 201 if needed.

Purpose: The incident Briefing form provides the Incident Commander (and the Command and General Staffs assuming command of the incident) with basic information regarding the incident situation and the resources allocated to the incident. It also serves as a permanent record of the initial response to the incident.

Preparation: The briefing form is prepared by the Incident Commander for presentation to the incoming Incident Commander along with a more detailed oral briefing. Proper symbology should be used when preparing a map of the incident.

Distribution: After the initial briefing of the Incident Commander and General Staff members, the Incident Briefing is duplicated and distributed to the Command Staff, Section Chiefs, Branch Directors, Division/Group Supervisors, and appropriate Planning and Logistic Section Unit Leaders. The sketch map and summary of current action Resources Summary portion are given to the Resources Unit.

J.2 ICS 205 (New)

INCIDENT RADIO COMMUNICATIONS PLAN		Incident Name			Date/Time Prepared		Date/Time Prepared		
Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode	Remarks
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
5. Prepared by (Communications Unit)					Incident Location County/State			Lat/Long	

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (Project 25)

J.3 ICS 205 Current Version

INCIDENT RADIO COMMUNICATIONS PLAN	1. Incident Name	2. Date/Time Prepared	3. Operational Period Date/Time

4. Basic Radio Channel Utilization					
Radio Type/Cache	Channel	Function	Frequency/Tone	Assignment	Remarks

5. Prepared by (Communications Unit)

Instructions for Completing the Incident Radio Communications Plan (ICS 205 Form)

ITEM NUMBER	ITEM TITLE	INSTRUCTIONS
1.	Incident Name	Print the name assigned to the incident.
2.	Date/Time Prepared	Enter date (month, day, year) and time prepared (24-hour clock).
3.	Operational Period Date/Time	Enter the date and time. Interval for which the Radio Communications Plan applies. Record the start time and end time and include date(s).
4.	Basic Radio Channel Utilization System/Cache	Enter the radio cache system(s) assigned and used on the incident (e.g., Boise Cache, FIREARMS, Region 5 Emergency Cache, etc).
	Channel Number	Enter the radio channel numbers assigned.
	Function	Enter the function each channel number is assigned (i.e., command, support, division tactical, and ground-to-air).
	Frequency	Enter the radio frequency tone number assigned to each specified function (e.g., 153.400).
	Assignment	Enter the ICS organization assigned to each of the designated frequencies (e.g., Branch I, Division A).
	Remarks	This section should include narrative information regarding special situations
5.	Prepared By	Enter the name of the Communications Unit Leader preparing the form.

Purpose: The Incident Radio Communications Plan provides in one location information on all radio frequencies assignments for each operational period. The plan is a summary of information obtained from the Radio Requirement Worksheet (ICS Form 216) and the Radio Frequency Assignment Worksheet (ICS Form 217). Information from the Radio Communications Plan on frequency assignment is normally placed on the appropriate Assignment List (ICS Form 204).

Preparation: The Incident Radio Communications Plan is prepared by the Communications Unit Leader and given to the Planning Section Chief.

Distribution: The Incident Radio Communications Plan is duplicated and given to all recipients of the Incident Objectives form including the Incident Communications Center. Information from the plan is placed on Assignment List.

J.4 ICS Form 210 (Status Change Card)

DESIGNATOR
NAME / ID.NO._____

_____

STATUS

☐ASSIGNED ☐AVAILABLE ☐O/S REST
☐O/S MECHANICAL ☐O/S MANNING

_____ETR (O/S=Out of Service)

FROM	LOCATION	TO
	DIVISION / GROUP	
	STAGING AREA	
	BASE / ICP	
	CAMP	
	ENROUTE	ETA
	HOME AGENCY	

MESSAGES

RESTAT

TIME_____ PROCESS ☐

STATUS CHANGE CARD

ICS
FORM
210 6/83

NFES 1334

Instructions for Completing the Status Change Card (ICS Form 210)

ITEM NUMBER	INSTRUCTIONS
Designator Name/ID No.	Enter the appropriate designator for the kind of resource. The resource type code are in ICS 020-1, Resource Listings
Status	Determine the current status of the resource. If out-of-service status is checked, enter the time when the resource will return to service.
From/Location/To	Place ad checkmark in the FORM column indicating the current location of the resource (where it came from). Also place a check in the TO column indicating the assigned location of the resource. When more than one Division, Staging Area, or Camp is used, identify the specific location (e.g., Division A, Redfern, Staging Area, Camp Hood).
Message	Enter any special information provided by the resource or dispatch center such as individual designator of strike teams and task forces.
Time	Enter the time of the status change (24-hour clock).
Resources Process	This box is checked by Resources Unit personnel after the Unit has transferred the information to a Resource Status Card (ICS Form 219).

Purpose: The Status Change form is used by the Incident Communications Center Message to record status change information received on resources assigned to the incident.

Preparation: The form is completed by radio/telephone operators who receive status change information from individual resources, Task Forces, Strike Teams, and Division/Group Supervisors. Status information could also be reported by Staging Area and Helibase Managers or fixed-wing facilities.

Distribution: The Status Change Card is a two-part form. The original is given to the Resources Unit, and the Communications Unit retains a second (pink) copy.

J.5 ICS 213

GENERAL MESSAGE		
TO:	POSITION:	
FROM:	POSITION:	
SUBJECT:	DATE:	TIME:
MESSAGE:		
SIGNATURE:	POSITION:	
REPLY:		
DATE:	TIME:	SIGNATURE/POSITION:

Instructions for Completing the General Message (ICS 213 Form)

ITEM NUMBER	INSTRUCTIONS
To	Indicate Unit/Person the General Message is intended for. Be specific.
Office	Indicate the location where the Unit/Person is located, e.g., Ground Support Unit Leader, Simpson Camp, Communications, etc.
From	Indicate appropriate designation and location sender.
Subject	Fill in if applicable.
Date	List the date and time.
Message	Briefly complete. Think through the message before writing it down. Try to be concise as possible.
Reply	This section is intended to be used by the Unit/Person who receives the message to reply to your message.
Date	Record the date and time of reply.
Signature	Record signature and title of person who initiates the message.
White Copy/Pink Copy	Both copies are sent by person who initiates the message.
Yellow Copy	Retained by the person who initiates the message.
Pink Copy	May be returned to the person who initiates the message.

The General Message form in use within the ICS is a three-part form.

Purpose: The General Message form is used by:

1. Incident dispatchers to records incoming messages which cannot be orally transmitted to the intended recipients.
2. Command Post and other incident personnel to transit messages to the Incident Communications Center for transmission via radio or telephone to the addressee.
3. Incident personnel to send any message or notification to incident personnel which required a hard-copy delivery.

Initiation of the Form: The General Message form may be initiated by incident dispatchers and any other personnel on an incident.

Distribution: upon completion, the General Message may be:

1. Hand carried to the addressee.
2. Hand carried to the incident Communications Center for transmission.

J.6 ICS 214

UNIT LOG	1. Incident Name	2. Date Prepared	3. Time Prepared
4. Unit Name/Designators	5. Unit Leader (Name and Position)		6. Operational Period

7. Personnel Roster Assigned

Name	ICS Position	Home Base

8. Activity Log

Time	Major Events

9. Prepared by (Name and Position)

Time	Major Events
214 ICS 5-80	9. Prepared by (Name and Position)

Instructions for Completing the Unit Log (ICS 214 Form)

ITEM NUMBER	ITEM TITLE	INSTRUCTIONS
1.	Incident Name	Print the name assigned to the incident.
2.	Date Prepared	Enter date prepared (month, day, year).
3.	Time Prepared	Enter time prepared (24-hour clock).
4.	Unit Name	Enter the title of the organizational unit resource designator (e.g., Facilities Unit, Safety Officer, and Strike Team).
5.	Unit Leader	Enter the name of the individual in charge of the unit.
6.	Operational Period	Enter the time span covered by the log (e.g., 1800 Oct.12 to 0600 Oct.13).
7.	Personnel Roster	List the name, position, and home based of each member assigned to the unit during the operational period.
8.	Activity Log	Enter the time and briefly describe each significant occurrence or event (e.g., task assignments, task completions, injuries, difficulties encountered, etc.)
9.	Prepared By	Enter Name and title of the person approving the log. Provide log to immediate supervisor at the end of each operational period.

Purpose: The Unit Log is used to record details of unit activity strike team activity. The file of these logs provides a basic reference which to extract information for inclusion ion any after-action report.

Preparation: A Unit Log is initiated and maintained by Command Staff members, Division/Group Supervisors, Air Operations Group/Strike Team/Task Force Leaders, and Unit Leaders. Completed logs are forwarded to supervisors who provide to the Documentation Unit.

Distribution: The Documentation Unit maintains a file of all Unit Logs. It is necessary that one copy of each log be submitted to the Documentation Unit.

J.7 ICS Form 216

RADIO REQUIREMENTS WORKSHEET			1. Incident Name			2. Date			3. Time		
4. Branch			5. Agency			6. Operational Period			7. Tactical Frequency		
8. Division/Group			Division/Group			Division/Group			Division/Group		
Agency			Agency			Agency			Agency		
9. Agency	ID No.	Radio Reqmnts	Agency	ID No.	Radio Reqmnts	Agency	ID No.	Radio Reqmnts	Agency	ID No.	Radio Reqmnts
			10. Prepared by (Name and Position)								

Instructions for Completing the Radio Requirements Worksheet (ICS 216 Form)

ITEM NUMBER	ITEM TITLE	INSTRUCTIONS
1.	Incident Name	Print the name assigned to the incident.
2.	Date Prepared	Enter date (month, day, year) prepared.
3.	Time Prepared	Enter time prepared (24-hour clock).
4.	Branch	Enter Branch number (I, II, etc.) for which radio requirements are being prepared.
5.	Agency	Enter the three-letter designator of the agency staffing the Branch Director position (e.g., VNC, CDF, ANF, LFD, etc.).
6.	Operational Period	Enter the time interval for which the assignment applies. Record the start date/time and end date/time.
7.	Tactical Frequency	Enter the radio frequency to be used by the Branch Director to communicate with each Division/Group Supervisor in the Branch.
8.	Division/Group	Enter for each Division/Group in the Branch the Division/Group identifier (A, B, etc.) and the agency assigned (e.g., LAC, VNC, etc.).
9.	Agency/ID No./Radio Requirements	List all units assigned to each Division/Group. Record the agency designator, unit or resource identification, and total number of radios needed for each unit resource.
10.	Prepared By	Enter the name and position of the person completing the worksheet.

Purpose: The Radio Requirements Worksheet is used to develop the total number of personnel portable radios required for each Division/Group and Branch. It provides a listing of all units assigned to each Division, and thus depicts the total incident radio needs.

Preparation: The worksheet is prepared by the Communications' Unit for each operational period and can only be completed after specific resource assignments are made and designated on Assignment Lists. This worksheet need not be used if the Communications Unit Leader can easily obtain the information directly from Assignment Lists.

Distribution: The worksheet is for internal use by the Communications Unit and therefore there is no distribution of the form.

J.8 ICS Form 217

RADIO FREQUENCY ASSIGNMENT WORKSHEET

1. INCIDNET NAME	2. DATE	3. OPERATIONAL PERIOD (DATE/TIME) From:

4. INCIDENT ORGANIZATION 5. RADIO DATA				BRANCH	DIVISION	DIVISION	DIVISION	BRANCH	DIVISION	DIVISION	DIVISION	BRANCH	DIVISION	DIVISION	DIVISION	INCIDENT COMMANDER	SAFETY OFFICER	OPERATION SECTION	AIR OPERATION	AIR TACTICAL SUPERVISO	PLANNING SECTION	GROUND SUPPORT	BASE UNIT							COMM CENTER	TOTAL BY REQ.
SOURCE	FUNCTION	CH#	FREQUENCY																												
6. AGENCY	ID		CH#	FREQUENCY																												
7. TOTAL RADIOS REQUIRED																															
217 ICS																									8. PREPARED BY (NAME/POSITION)							

J.9 ICS Form 217A

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A						Frequency Band		Description	
	Channel Configuration	**Channel Name/Trunked Radio System Talkgroup**	**Eligible Users/Assignments**	**RX Freq N or W**	**RX Tone/NAC**	**TX Freq N or W**	**Tx Tone/NAC**	**Mode A, D. or M**	**Remarks**
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25). All channels are shown as if programmed in a portable or mobile radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

J.10 SAMPLE ICS 217A

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET ICS 217A			Frequency Band				Description	
	Channel Configuration	**Channel Name/Trunked Radio System Talkgroup**	**Eligible Users/Assignments**	**RX Freq N or W**	**RX Tone/NAC**	**TX Freq N or W**	**Tx Tone/NAC**	**Mode A, D. or M**	**Remarks**
	List – Identify Tactical Nets								
			Operations						
			Operations						
			Operations						
			Operations						
	List – Identify Command Nets								
			Command & General Staff						
			Command & General Staff						
			Command & General Staff						
	List – Identify Air-to-Ground Nets								
			Air Ops & Ops						
	List – Identify Dispatch Nets								
			Initial Attack						
			Initial Attack						
			Initial Attack						
			Initial Attack						
			Initial Attack						
			Initial Attack						
	List – Identify Support Nets								
			Logistics						

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25). All channels are shown as if programmed in a portable or mobile radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

Instructions for Completing the Radio Frequency Assignment Worksheet (ICS 217 Form)

ITEM NUMBER	ITEM TITLE	INSTRUCTIONS
1.	Incident Name	Print the name assigned to the incident.
2.	Date	Enter date (month, day, year) prepared.
3.	Operational Period	Enter the time interval for which the assignment applies. Record the start date/time and end date/time (e.g., 9/17/96-0600 to 9/18/96-0600).
4.	Incident Organization	List frequencies allocated for each channel for each organizational element activated, record the number of radios required to perform the designated function on the specified frequency.
5.	Radio Data	For each radio cache and frequency assigned, record the associated function. Functional assignment for: a. Command b. Support c. Division tactical d. Ground-to-air
6.	Agency	List the frequencies for each major agency assigned to the incident. Also list the function and channel number assigned.
7.	Total Radios Required	Total each column. This provides the number of radios required by each organizational unit. Also total each row which provides the number of radios using each available frequency.
8.	Prepared By	Enter the name and position of the person completing the worksheet.

Purpose: The Radio Frequency Assignment Worksheet is used by the Communications Unit Leader to assist in determining frequency allocation.

Preparation: Cache radio frequencies available to the incident are listed on the form. Major agency frequencies assigned to the incident should be added to the bottom of the worksheet.

Distribution: The worksheet, prepared by the Communications Unit, is for internal use.

J.11 ICS Form 309

COMMUNICATIONS LOG	**TASK #**	DATE PREPARED: TIME PREPARED:
FOR OPERATIONAL PERIOD#	TASK NAME:	
RADIO OPERATOR NAME (LOGISTICS):		STATION I.D.

LOG			
	STATION I.D.		
TIME	FROM	TO	SUBJECT
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REV 96/02/22

Appendix K Glossary

Item/Acronym	Definition
ACU-1000	Audio bridge used in fixed and mobile configurations. Requires radio from each connected communications system. Gateway device used to link disparate radio systems.
AM	Administrative Manager
ARES	Amateur Radio Emergency Services
Audio Bridge	Connects four-wire audio from disparate radio systems to provide interoperability.
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
CASM	Communication Assets Survey and Mapping
CAM	Communication Assets Mapping
CAS	Communication Assets Survey
CERT	Community Emergency Response Team
COMC	Communications Coordinator
COML	Communications Unit Leader
COMT	Incident Communications Technician
Console Patching	Ability to connect channels via dispatch consoles
DEM	Department of Emergency Management
DHS	Department of Homeland Security
DOD	Department of Defense
DPS	Department of Public Safety
EMS	Emergency Medical Services
EOC	Emergency Operations Center
ESF	Emergency Support Function
FEMA	Federal Emergency Management Agency
FCC	Federal Communication Commission
GBC	Great Basin College
IC	Incident Command
ICC	Incident Communications Center
ICALL	Calling Channel for ITAC
ICP	Incident Command Post
ICRI	Incident Commander's Radio Interface (mobile gateway)
ICS	Incident Command System
ICTAP	Interoperable Communications Technology Assistance Program
ITCN	Inter-Tribal Council of Nevada
IMC	Integrated Multi-Site Controller
INCM	Incident Communications Center Manager
Inter-agency	Located or occurring between two or more agencies
Interoperable	Ability of a system to use the parts or equipment of another system
IT	Information Technology
ITAC	Conventional mutual aid channel 800 Mhz
JFO	Joint Field Office
JPA	Joint Powers Authority
MCC	Mobile Communication Center
MCU	Mobile Communications Unit
MHz	Abbreviation for megahertz. 5 MHz = 5,000,000 Hz or 5,000 kHz.

MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
Mutual Aid	Personnel, equipment, or services provided to another jurisdiction
NCHS	Nevada Commission on Homeland Security
NDF	Nevada Department of Forestry
NDOT	Nevada Department of Transportation
NIMS	National Incident Management System
NBA	Nevada Broadcaster's Association
NHA	Nevada Hospital Association
NHP	Nevada Highway Patrol
NPSPAC	National Public Safety Planning Advisory Committee
NHSE	Nevada System of Higher Education
NSRS	Nevada Shared Radio System
NSSE	National Special Security Event
OEM	Office of Emergency Management
POC	Point of Contact
RACES	Radio Amateur Civil Emergency Service
RADO	Radio Operator
RF	Radio Frequency
RTICP	Regional Tactical Interoperability Plan
SHARES	Shared Resources High Frequency Radio Program
SOP	Standard Operating Procedure
STR	Strategic Technology Reserve
Talkgroup	Term usually used with trunked radio systems. A talkgroup is a predefined list of radios/users assigned a unique ID which allows them to communicate with each other over the trunked radio system.
THSP	Technical Specialist
TICP or TIC Plan	Tactical Interoperable Communications Plan
UHF	Ultra High Frequency – Range of 300 to 3,000 MHz. For public safety LMR, usually refers to two bands. 380 to 460 MHz (low) and 460 to 512 MHz (high).
USFS	United States Forest Service
VHF	Very High Frequency – For public safety LMR, usually refers to VHF High Band with a range of 136 to 164 MHz. VHF Low Band has a frequency range below 100 MHz.