Washington State
Emergency Management Association

Washington State Field Operations Guide (WAFOG)

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Common Responsibilities of All Deployed Responders

- Be prepared to deploy – have Go kit(s) ready
- Receive assignments – DO NOT self-deploy
  - Reporting location, time, and travel route
  - Description of type and severity of incident
  - Instructions for communication while enroute
  - Monitor incident status while enroute
- Start an ICS 214 to document activities
- Upon arrival, check in at correct location
- Receive briefing from immediate supervisor
- Gather information on current incident status
  - Copy of IAP, face-to-face, ICS 201
  - Document current situation if necessary
- Document significant activities on ICS 214
- Maintain asset accountability
- Brief, assign and manage subordinates, if any
- Work safely – ensure safety
- Participate in planning process if appropriate
- Keep systems operational – verify!
- Brief replacement prior to shift change
- Demobilize as directed – when and how

About this Guide

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The purpose of the Washington Statewide Tactical Interoperable Communications Field Operations Guide (WAFOG) is to increase efficiency in establishing interoperable communications during incidents, create a consistent knowledge base of interoperable communications frequencies and networks, and provide a helpful tool for pre-planning and interoperable communications training and exercises.

Please send updates, corrections, or comments about the WAFOG in word format to the point of contact (POC) listed above.

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INTEROPERABLE COMMUNICATIONS

COMMON ISSUES

1. Incident is using radio channels in more than one band (VHF, UHF, and/or 700/800 MHz)
2. Incident using different radio bands via console or gateway patches
3. Unable to communicate critical information due to radio congestion
4. Unfamiliar with radio system(s) or assigned radio functionality
5. Instructions and assignments not clear
6. Have no or inadequate communication with your crew members or supervisor
7. Dispatch to dispatch channel patching
8. Inadequate number of tactical channels available or assigned
9. Multiple conversations on the same talk group or channel
10. Lack of sufficient coverage areas for existing systems
11. High level of background noise that makes communications difficult
12. Potential for multiple uncoordinated radio gateways in an area that would interfere with each other
13. Multiple agencies performing individual radio programming at the incident

14. Non-standardized use of plain language and continuing use of 10 codes
15. Responding agencies have not identified a single Communications Unit Leader (COML) for the incident
16. Some radio equipment and systems do not provide dependable coverage inside buildings

SYSTEM USER RESPONSIBILITIES

Agencies will retain the following rights and responsibilities:

- Agencies are responsible for complying with Memoranda of Understanding (MOUs) and Agreements within 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.
- Incident Commanders (ICs) retain the right to decide how to utilize interoperable communications.

PRIORITIZATION AND SHARED USE OF REGIONAL INTEROPERABILITY ASSETS

In response to events or incidents which cross over agency responsibilities, there will potentially be competing demands and priorities for the use of interoperable communications assets.

An Incident Commander (IC), in cooperation with assisting agencies, will have the authority to request the use of interoperability assets. The IC, Logistics Section Chief, or COML, when designated, will direct further coordination and delegation of the interoperable communications assets assigned to the event or incident in question.

Agencies should judiciously activate needed interoperable assets both to respond effectively to the event and/or incident and to minimize any negative impact on surrounding agencies or jurisdictions. Specifically, interoperable communications should be attempted with the following order of deployment in mind (subject to the involved agencies' disciplines/responsibilities and the nature of the event/incident).

1. Leverage face-to-face communications wherever appropriate. For example, 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 those assets become taxed or inadequate based on the nature and/or scope of the incident.
3. If response agencies operate on disparate systems, use shared or mutual aid channels to establish interoperable communications.
4. If response agencies do not share systems or channels, use a gateway solution to establish interoperable communications.
5. Where interoperable communications cannot otherwise be established between response agencies, use swap or cache radios to establish communications for responders.

6. Use non-public safety common carrier communications systems.
7. If no other method of interoperability can be established, relay communications through staff members (runners).

When the same resources are requested for two or more incidents, resource assignments should be based on the priority levels listed below (in decreasing priority; i.e., lower number indicates a higher priority).

1. Incidents where imminent danger exists to life or property
2. Disasters, large scale incidents, or extreme emergencies requiring mutual aid or interagency communications
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 principles 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 interoperability options have priority use of those options over agencies with multiple interoperability options.
3. When possible, agencies already using an interoperability asset during an incident or event should not be redirected to another resource.

Dispatch Center of Jurisdiction

The Public Safety Communications Dispatch Center of the agency initiating the incident is responsible for all primary dispatch tasks unless the decision is made by the Incident Commander or the Incident Dispatch Center to transfer the responsibilities to another Center. The Incident Dispatch Center is responsible for audio patching of talkgroups and relaying pertinent information to include who is involved, which talkgroups are patched, and who is in command.

1. Interoperable resources should be considered when the day-to-day communication systems are overloaded or multiple jurisdictions or disciplines are involved in a large incident or preplanned event.
2. Maintain the use of the National Incident Management System (NIMS) including the use and implementation of the Incident Command System (ICS) whenever possible.
3. Use plain language and common terminology (avoid acronyms and code).
4. Use clear unit identification procedures including the agency name before the individual unit identifier.
5. Maintain clear and concise radio communications discipline; be brief and to the point.
6. Request additional assistance when needed.
7. Consider demobilization as event winds down.

REQUEST ON-SCENE COMMUNICATIONS

Requests for on-scene Interoperable equipment and support will initially be made from the Incident Commander or designee.

Each individual support/resource request should be routed through the nearest jurisdictional Emergency Management Agency (EMA). All requests beyond the local and county capabilities are routed through ESF-2 (via EMITS) at the State Emergency Operations Center (SEOC).

The order of support will be:

1. Local
   a. The IC or designee shall first attempt to find needed resources within the local resources.
   b. This includes city and municipality resources.
2. County
   a. This option is to be used if the local resources are exhausted or not available.
   b. This includes all resources available within the affected county.
3. Regional
   a. This option it to be used if the county resources are exhausted or not available.
   b. Resources available through Mutual Aid Agreements (MAA) that involve multiple counties will be considered regional without regard to the established EMA regions. This includes the communications truck that is normally assigned to that region and any EMA equipment that may be pre-staged in that region.
4. State
   a. This option should be used if the regional resources are exhausted or not available and includes the state

communications truck and available assets from other state agencies and other regions.

5. Federal
    a. EMA will be responsible for requests or procurements from FEMA or any other federal agency.

ESTABLISHING INITIAL ON-SCENE INTEROPERABLE COMMUNICATIONS

The on-scene commander, designee or COML will have the responsibility for coordination of interoperable communications at the scene.

The on-scene commander, or designee, will make decisions or perform actions including, but not limited to:

1. Monitoring the calling channels
2. Determining specific interoperable channels that are to be used on scene and make assignment to specific nets, channels or groups
3. Completing the initial ICS 205 form
4. Assignment to specific nets, channels or groups
5. What local communications resources will be used
6. Notifying the SEOC when the Interoperable frequencies are in use
7. Making determinations as to additional resource requests
8. Determination about programming radios at the scene

The regional or state communications truck may not be the first on the scene and local resources may have the capability to provide the initial communications in the area. When a regional or state communications truck or county/ municipal vehicle is on

scene, they may take over as the COML as designated by the on-scene commander.

Supporting state agencies and all counties have a signed frequency use agreement that grants them permission to use the VHF and UHF Interoperable frequencies. These agencies should have the Interoperable frequencies pre-programmed into their radios.

OPERATIONAL PROCEDURES

The Radio Operator (RADO) will monitor VCALL10 (VTAC11?) and UCALL40D when the disaster scene is established.

1. VCALL10 (VTAC11?) is the primary VHF calling channel and UCALL40D is the primary UHF calling channel. 700/800 MHz National Interoperable frequencies may also be used. These channels will be used for checking in when units first arrive on the scene.
2. Individual units or functions may be assigned another working channel upon check in by the on-scene commander, their designee or the COML.
3. Requests for establishment or disestablishment of cross connection for radio frequencies should be made through the on-scene commander, their designee, or the COML.
4. An announcement should be made on all of the applicable frequencies when a patch is made or broken.
5. Interference and operational issues will be handled on a case by case basis.

The order of communications support escalation will be:

1. Normal local communications systems including Mutual Aid (MA) frequencies
2. Local county fixed interoperable equipment
3. Regional interoperable vehicle support
4. State interoperable vehicle and transportable support
5. Federal communications support

NATIONAL INCIDENT MANAGEMENT SYSTEM (NIMS)

NIMS was developed so that emergency response professionals from different agencies, disciplines and jurisdictions can work together to coordinate, manage and support emergent and planned incidents. The five major components of NIMS are:

1. Command & Management
2. Communications & Information Management
3. Preparedness
4. Resource Management
5. Ongoing Management & Maintenance

This guide focuses on all five components but will have a primary focus on Command & Management and Communications & Information Management.

INCIDENT COMMAND SYSTEM (ICS)

ICS is a key feature of NIMS. It is a widely applicable management system designed to enable effective, efficient management by integrating a combination of communications, equipment, facilities, personnel, and procedures operating within a common and flexible organizational structure. ICS is used to organize on-scene operations for a broad spectrum of incidents

and guides the process for planning, building and adapting that structure. ICS is based on the command principles of chain of command, delegation of authority, division of labor, span of control and unity of command. The five major functional areas of ICS are administration/finance, command, logistics, operations, and planning.

REGIONAL EMERGENCY RESOURCE STAFFING

Dispatch Center or Emergency Operations Center (EOC)

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 county, region, state, and/or 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 the ICS 205 (Incident Radio Communications Plan) and supervises the Communications Unit.

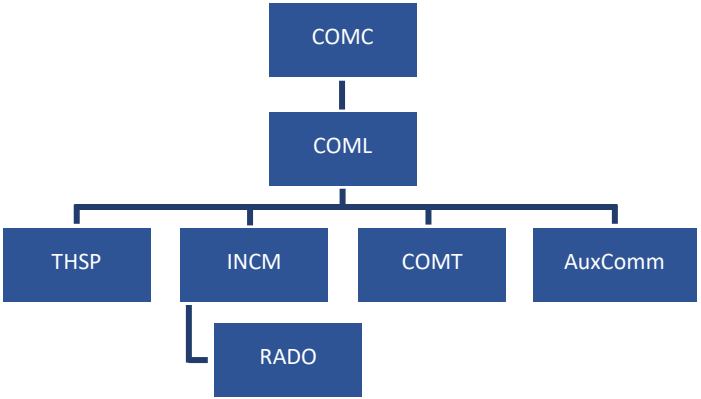
Technical Specialist (**THSP**) – Allows for the incorporation of personnel who may not be formally certified in any specific NIMS/ICS position. THSPs may include local agency radio technicians (as opposed to the COMT), telephone specialists, gateway specialists, data/IT specialists, and/or cache radio specialists.

Incident Communications 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, or mobile communications unit.

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

Auxiliary Communications **(AuxComm)** – Auxiliary Emergency Communications (also known as AEC or AuxComm) provides supplementary and backup communications utilizing the services of volunteer communicators. AEC operates as part of the Communications Unit. AEC draws its resources from the licensed Amateur Radio operators within the state and has the capability to provide both intrastate and interstate AEC mutual aid.

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.



ICS PERSONNEL RESPONSIBILITIES

The following list is applicable to all ICS personnel:

1. Receive assignment from your agency, including
   a. Job assignment, e.g., Strike Team designator, overhead position, etc.
   b. Resource order number and request number
   c. Reporting location
   d. Reporting time
   e. Travel instructions
   f. Any special communications instructions, e.g., Travel Channel/Talkgroup

2. Upon arrival at the incident, check in at designated Check-In location. Check in may be found at:
    a. Incident Command Post (ICP)
    b. Base or Camps
    c. Staging Areas
    d. Helibases
    e. If you are instructed to report directly to a line assignment, check in with the Division/Group Supervisor
3. Receive briefing from immediate supervisor
4. Acquire work materials
5. Conduct all tasks in a manner that ensures the safety of you and your co-workers
6. Organize and brief subordinates
7. Know the assigned frequency/talkgroup(s) for your area of responsibility and ensure that communications equipment is working properly
8. Use clear text and ICS terminology (no codes) in all radio communications. All communications to the Incident Communications Center will be addressed “(Incident Name) Communications,” e.g., “Hayman Communications.”

AREA COMMAND CHECKLIST

The Area Commander is responsible for the overall direction of incident management teams assigned to the same incident or to incidents in close proximity. This responsibility includes ensuring that conflicts are resolved, compatible incident objectives are established and strategies are selected for the use of critical resources.

Area Command also has the responsibility to coordinate with local, state, federal, and volunteer organizations and agencies that are operating within the Area.

INCIDENT COMMANDER (IC) POSITION CHECKLIST

The Incident Commander's responsibility is the overall management of the incident. On most incidents, a single Incident Commander carries out the command activity; however, Unified Command may be appropriate. The IC is selected by qualifications and experience.

The IC may have a deputy, who may be from the same agency, or from an assisting agency. Deputies may also be used at section and branch levels of the ICS organization. Deputies must have the same qualifications as the person for whom they work for, as they must be ready to take over that position at any time.

COMMUNICATIONS UNIT LEADER POSITION CHECKLIST

Note that some tasks are one-time actions while others are ongoing or repeated during the incident. The term "Communication" may refer to radio systems, data/internet systems, or telephone systems.

1. Obtain briefing from appropriate ICS staff member (your supervisor)
2. Assess communications systems/frequencies in use – document if not already done
3. Organize and staff Communications Unit as appropriate:
   - Assign Incident Communications Center Manager (INCM), if necessary
   - Order and assign adequate staff (COMTs, RADOs, THSPs)

- Brief incoming staff on current activities, duties, responsibilities and procedures

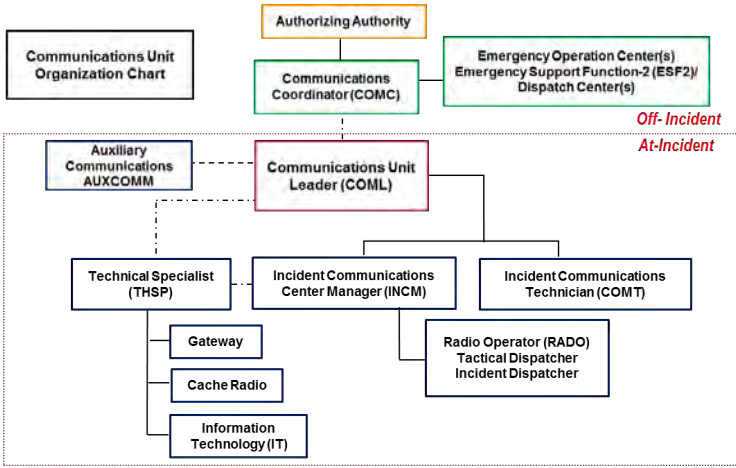
4. Establish safety procedures for personnel and ensure compliance
5. Participate in planning cycle meetings and briefings
6. Advise on communications capabilities/limitations
7. Coordinate all communication systems use with local, area or state Communications Coordinator (COMC) as appropriate
8. Develop/implement effective communications flow to/from the Incident Command Post (ICP)
9. Assess ICP telephone needs / request additional lines if necessary
10. Prepare and implement Incident Radio Communications Plan (ICS 205):
    - Obtain current organizational chart (ICS 203 or ICS 207)
    - Determine most hazardous tactical activity; ensure adequate communications
    - Make communications assignments for all other Operations Section elements
    - Determine Command and General Staff communications needs
    - Determine support (Logistics, Planning and Admin Sections) communications needs
    - Establish specific procedures for use of all communications equipment
11. Ensure communications data on ICS 204 and ICS 206 is correct
12. Document cellular phones and pagers in Incident Communications Plan (ICS 205T), if appropriate:

- Determine specific organizational elements to be assigned telephones
- Identify all facilities/locations needing telephone communications, identify/document phone numbers
- Determine which phones/numbers should be used by what personnel and for what purpose. Assign specific telephone numbers for incoming calls, and report these numbers to staff and off-site parties
- **Do Not publicize OUTGOING phone lines**

13. Activate, serve as contact point, integrate and supervise auxiliary communications units (AuxComm)
14. Ensure use of Communications Logs (ICS 309) for radio and telephone traffic
15. Determine need and availability of additional nets and systems:
    - Obtain copy of local Tactical Interoperable Communications Plan (TICP)
    - Order resources as appropriate after approval by Section Chief
16. Ensure that communications equipment operation is monitored continuously
17. Document malfunctioning communications equipment, facilitate repair
18. Establish and maintain communications equipment accountability system
19. Provide technical information, as required, on:
    - Adequacy of communications system currently in use
    - Geographic limitation on communications equipment
    - Equipment capabilities

- Amount and types of equipment available
- Anticipated problems in the use of communications

20. Estimate Communications Unit needs for expected operations, order relief personnel
21. Provide briefing to relief on current activities and unusual situations
22. Document all activity on Unit Log (ICS 214)



GENERAL RULES OF USE FOR INTEROPERABILITY ASSETS

The following general requirements apply to interoperability channels designated specifically for that purpose.

Encryption

The use of FCC-designated interoperability channels for the transmission of encoded, encrypted, or scrambled messages is prohibited.

Monitoring of Channels

Personnel should monitor interoperability channels/talkgroups prior to transmitting to minimize the possibility of interference with in-progress communications.

Plain Language

All communications on interoperability channels/talkgroups shall be in plain language. Abbreviations, acronyms and radio codes shall be avoided since they may cause confusion between agencies.

Unit Identification

The agency name or identifier shall always precede the unit identifier when operating on interoperability channels and talkgroups. The following additional procedures then apply:

- Always identify who you are calling first, followed by your unit ID. There is an implied “this is” between the two IDs, e.g., "Ocean Engine 51, Division B, XXX Strike Team 2001 C," or "Golden Dog 1, State Patrol 21” (Note: these are examples). This identification process is critical, especially when a unit is broadcasting an emergency.

- Units must use their agency-assigned unit designator during transmissions. These should not be shortened and should include the entire set of letters and/or numbers.
- Base stations should identify themselves by using their agency name along with any other usual identifier. Unless equipped for automatic station ID, base stations must also use the FCC call sign shown on their license at least once every 30 minutes or at the end of a series of transmissions.
- When agencies, operating on different radio systems, respond to incidents requiring interoperability, units should finish their transmission with the channel on which they are transmitting (e.g., ""Command, this is Monson Ambulance A1" or "Operations, Division A on Command" (Note: these are examples).

Loaned Equipment

- **Equipment Return** – The requesting agency is responsible for the returned condition of any equipment that is issued to them. Individuals or agencies will be billed for any replacement costs for equipment, accessories, batteries and any other item that was not returned in the same condition as issued.

RESOURCE MANAGEMENT (EQUIPMENT & PERSONNEL)

Request

Radio users requiring direct communications with a user from a different agency shall follow their agency's established procedures for requesting connectivity.

The following information should be provided by the requesting agency at the time of an activation request:

1. Requesting user's agency
2. On-scene agencies requiring interoperability
3. Reason for request/type of incident
4. Equipment and/or personnel required.
5. Expected duration of incident
6. Reporting location (ICP, Staging Area, etc.)
7. Any special travel information, to include any designated "travel" channel(s)/talkgroup(s)
8. Requester's and/or dispatch center contact telephone number

Mobilization

The responding agency POC should provide estimated activation and response times to be relayed to the dispatch center of the agency having jurisdiction over the incident. The dispatch center will relay the information to the Incident Commander or designee.

Supporting agency responder(s) should respond with appropriate equipment and supplies required to support their participation in the incident for the expected duration of that incident.

Staging

Supporting agency responder(s) should arrive at the designated arrival/staging location/Incident Command Post.

Responder(s) should check in with the appropriate manager at the incident and complete any required ICS forms prior to reporting to their specific assignment(s).

Assignment/Deployment

Once on-scene, operators of requested equipment (caches, gateways, etc.) and responders will be given specific assignments, typically through staging.

Operators or providers of interoperability equipment, once checked in to an incident, should report to the COML for specific information on their assignment.

Deactivation/Demobilization

IMPORTANT: Active channels/talkgroups supporting responders in hazardous or remote locations must be very carefully deactivated so that no responder is left on an interoperability resource with the belief that it is still active and/or still being monitored by a RADO or supervisor. In such deactivations, a roll-call of all responders on the channel is appropriate to ensure that the demobilization message has been received and responders are switching to their new assigned channel or talkgroup.

Before leaving the incident scene, responder(s) should check out with their supervisor and any appropriate manager at the incident, and complete any required ICS forms, as appropriate for the incident:

1. Unit Log (ICS 214)
2. Demobilization Checkout (ICS 221)
3. Performance Rating (ICS 225)

REQUEST TO USE ALL STR RESOURCES

Example below:

Un-Planned Event	Pre-Planned Event
1. Consult on-scene COML or equivalent 2. Contact Local EMA with information required in STR Request form a. Describe nature/incident type b. STR equipment requested c. Location of Incident d. Agencies involved e. Anticipated duration f. POC information g. Additional resources needed 3. Local EMA Director submits request through…. 4. EMA ESF-2 function assigns appropriate assets 5. Responding agency notified to deploy assets 6. Track deployment and delivery progress using the [Name] system	1. Consult on-scene COML or equivalent 2. Submit request at least 60-90 days in advance of event start date to EMA 3. Supply Local EMA with information required in STR Request form a. Describe nature/incident type b. STR equipment requested c. Location of Incident d. Agencies involved e. Anticipated duration f. POC information g. Additional resources needed 3. Local EMA Director submits request through [Name] to EMA 4. EMA ESF-2 function assigns appropriate assets 5. Responding agency notified to deploy assets; or requestor picks up desired cache 6. Track deployment and delivery progress using the EMITS system

WASHINGTON STATE REGIONS

WASHINGTON STATE REGIONAL INTEROPERABILITY ASSETS

The following pertains to all regions.

SHARED SYSTEMS

Shared systems provide public safety/service communications for agencies within the region. “Shared system” refers to a single radio system used to provide service to several public safety or public service agencies.

“Intra-system shared channels” refers to common frequencies/talk groups 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/talk group programmed into a user’s radio.

GATEWAYS

Gateways 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.

A **Communications Unit Leader (COML) or Incident Commander (IC)** must be aware that multiple gateway activations in support of an incident can result in interference. Interference issues are best resolved by the technical support personnel assigned to the gateways.

Whenever possible, patches of one talkgroup to another talkgroup on the same system or platform should be accomplished at the console level to minimize channel loading.

Requesting a Gateway - The incident COML/COMC or their designee determines when a situation exists that requires the use of a radio gateway and notifies the appropriate dispatch center. The COML or COMC determines what gateways are available for use, identifies a specific gateway, activates that gateway, and coordinates the gateway deployment with the requesting agency Incident Commander or their designee.

REPEATERS

A “repeater” is a combination of a radio receiver and a radio transmitter that receives a weak or low-level signal and retransmits it at a higher level or higher power, so that the signal can cover longer distances without degradation. “Mobility” of a repeater is defined as:

- Portable: can be carried by a person and is self-contained.
- Transportable: requires a vehicle to transport it and can be set up to operate external to the transport vehicle.
- Vehicle Mounted: mounted/fixed in the transport vehicle and operates from within.

There are two types of repeater: a simplex repeater and a duplex repeater.

- A **simplex repeater** consists of a radio on a simplex frequency and a digital voice recorder. When a signal is received, the recorder stores the message (usually up to 60 seconds maximum.). When the received signal ends, the digital voice recorder retransmits the message on the

same frequency. A commonly used term to describe this activity is “store and forward”.

- A **duplex repeater** uses two radio frequencies; a receive frequency for incoming signals and a transmit frequency, on which it retransmits the received signals. The repeater transmits and receives at the same time; i.e., simultaneously.

Some jurisdictions have deployed radio repeaters that provide interoperable communications allowing efficient coordination of first responders during an incident or planned event. These repeaters may be in fixed positions using permanent towers; or, they may be transportable, allowing for deployment at or near the incident scene. Proper operation of repeater stations is necessary for the efficient use of the interoperability channels, especially in minimizing and eliminating potential interference.

Best Practice Summary:

- Only the minimum number of calling channel repeaters should be in “Repeater ON” mode across the region.
- Repeaters on the tactical frequencies should always be in “Repeater OFF” mode, unless they are actually in use.
- Agencies should periodically check their repeaters to make sure they are in “Repeater OFF” mode to prevent interference to other agencies.
- Having multiple repeaters active on the same frequency in the same area causes the mobile and portable radio users to hear interference from multiple repeaters.
- Dispatch centers using direct repeater control normally cannot hear other active repeaters on their consoles unless they also have a monitor radio on that channel. They will hear the input channel from any mobile, portable,

or control stations from any agency within range of their repeaters.

Calling Channels - Many agencies monitor the calling channels for their area on their own repeaters.

Tactical Channels are used for incident communications.

- All tactical repeaters will be set to “Repeater Off”, or equivalent, unless needed for an incident or event in that area.
- If possible, configure tactical repeaters to default to “Repeater OFF” in the event of a power cycle or other disruption.
- In general, the tactical channel repeater that is closest to the incident and provides the minimum effective coverage area for the incident should be used. This allows greater reuse of frequencies for multiple incidents across the region.

Requesting a Repeater - The incident COML/COMC or their designee determines when a situation exists that requires the use of a repeater and notifies the appropriate dispatch center. The COML or COMC determines what repeater are available for use, identifies a specific repeater, activates that repeater, and coordinates the repeater deployment with the requesting agency Incident Commander or their designee.

RADIO CACHE

A “radio cache” refers to a designated reserve 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.

Requesting a Cache - The incident COML/COMC or their designee determines when a situation exists that requires the use of a radio cache and notifies the appropriate dispatch center. The COML or COMC 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.

DATA COMMUNICATIONS

Data Communications refers to deployable computer networks, devices and applications that support real time data exchange between public safety entities involved in a coordinated incident response or any mutual aid effort.

Networks/Connections

The Radio Access Network (RAN) portion of the network consists of the radio base station infrastructure that connects to user devices. RAN includes cell towers as well as mobile hotspots embedded in vehicles that backhaul to the core network over satellite or other types of wireless infrastructure.

A local area network (LAN) is a group of computers and associated devices that share a common communications line or wireless link to a server. Typically, a LAN encompasses computers and peripherals connected to a server within a distinct geographic area such as an office or a commercial establishment. Computers and other mobile devices use a LAN connection to share resources such as a printer or network storage.

Devices/Sensors

Devices and sensors refer to the many types of user access points that send and receive voice, data, or video information over the network. Devices and sensors consist of hardware items such as smartphones, computers/laptops, telecommunications systems, tablets, dongles, and cameras, along with a wide variety of specialized products designed for public safety or other purposes. Device Type Description: End-User Handheld (e.g., voice, data, video, multi-function, etc.), Remote Sensor (e.g., handheld/ portable, transportable, vehicle mounted, fixed site), IP Camera, Environmental Sensor.

Applications

A mobile application, most commonly referred to as an app, is a type of application software designed to run on a mobile device, such as a smartphone or tablet computer. Mobile applications frequently serve to provide users with similar services to those accessed on PCs.

MOBILE COMMUNICATIONS UNITS (MCU)

A Mobile Communications Unit (MCU) refers to any vehicular asset that can be deployed to provide or supplement communications. The following additional policies and procedures apply to establishing interoperable communications between agencies via MCUs:

- Equipment Return – The requesting agency is responsible for the return of any MCUs in the condition that they were received and/or as dictated by existing Memoranda of Agreement (MOAs).

- Resource Modifications – The requesting agency is not allowed to change anything in the MCU without written permission of the owning agency.
- Technical Support – Qualified MCU THSPs or COMTs must be available for on-scene support during the deployment of MCUs.

Generators

The following Host Agencies have transportable generator units for deployment to an incident.

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Through ICS the amateur radio section is known as AuxComm.

Amateur Radio Emergency Services (ARES)

A program of the American Radio Relay League (ARRL). ARES consists of amateur radio operators who volunteer to provide emergency communications when needed. ARES groups are structured at the county level and often closely aligned with emergency management functions.

Radio Amateur Civil Emergency Service (RACES)

RACES is a volunteer organization of licensed amateur radio operators registered with the local (county) emergency management organization to provide auxiliary emergency communications on behalf of local, state or federal government.

Although the FCC is responsible for the creation and regulation of RACES operations, management is the responsibility of the Federal Emergency Management Administration (FEMA).

Each local RACES group is administered by a local government agency responsible for disaster services. RACES may be

activated by the director of an emergency management office, or authorized representative, for a particular area. The activation is in accordance with an approved civil defense communications plan.

WASHINGTON STATE AGENCY CONTACT INFORMATION

Agency	24 Hr. #
Department of Corrections (Warrants Desk)	360-725-8888

WASHINGTON STATE SHARED SYSTEMS (ALL REGIONS 1 THRU 9)

System Name	Agency	Freq	24 Hr. #
OSCCR	Washington State Emergency Management Agency (EMA)	VHF High Band (HB)	253-512-7176
Comprehensive Emergency Management Network (CEMNET)	Washington State EMA	VHF Low Band (LB)	253-512-7176
State Emergency Communications Using Radio Effectively (SECURE)	Washington State EMA	HF	253-512-7176
WSP Radio	Washington State Patrol (WSP)	VHF/700 MHz P25 Phase II	360-705-5999
Department of Natural Resources (DNR) Radio	DNR	VHF HB	360-902-1480

System Name	Agency	Freq	24 Hr. #
Washington State Department of Transportation (WSDOT) Radio (ITS) Intelligent Transportation Systems & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	800-260-4214
WILDCOMM	Department of Fish & Wildlife (DFW)	VHF HB/UHF Trunked/ and Conv/700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio[1]	Department of Corrections (DOC)	800 MHz	360-725-8888
Washington State Department of Enterprise Services (DES) Capitol Complex Radio	DES		
IWIN	Federal Bureau of Investigations (FBI)	800 MHz SmartZone V4.1	425-487-4621
RACES		Echolink/HF-UHF	

[1] DOC does not have a shared system; 8TAC93 is licensed for use at DOC prisons. With Duty Officer approval, may be used to support local incident response, management, and recovery.

OTHER SHARED SYSTEM INFORMATION

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or to obtain authorization for its use contact the EMD Telecommunications Section at: 253-512-7036.

SECURE: Operates on 8 discrete frequencies, Fixed HF stations are in the State EOC and each WSP district communications center and is licensed to operate on up to 5 mobile stations.

SECURE serves as a "secondary" limited back-up communications system for direction and control use within the state, as needed. It also serves as a capability to communicate with FEMA Region X, Idaho, and Oregon. It is an HF radio system employing two stations located in the State EOC, the Spokane EOC, and a mobile station operated by the Military Department. The frequencies authorized by FCC and FEMA for use on the system are:

Primary (Day): 5.192 MHz
Primary (Night): 2.411 MHz
Primary (Day - Interstate): 7.805 MHz
Primary (Night - Interstate): 2.326 MHz
Other assigned frequencies: 2.801 MHz, 2.414 MHz, 2.587 MHz, and 7.935 MHz.

Frequencies are operated upper sideband (USB). A local jurisdiction EOC will operate on this system when the need is identified, and the capability is provided by the state EMD Telecommunications and Warning Program Manager.

DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these may be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC

TRANSPORTABLE/MOBILE GATEWAYS

Gateway Type	24 Hr. #	Agency
IWN-FBI/ACU-1000	206-622-0460	FBI Radio Shop, Seattle
IWN-DEA/ACU-1000	206-553-5512	DEA Seattle

Note: The DEA has one RIOS mobile interoperability unit and is a mobile ACU-1000 gateway system that includes 12 radio connections that can be configured to provide up to 7 interconnects.

RADIO CACHE

Location/Agency	24 Hr. #	Make/Model	Freq
IWN (United State Department of Justice (USDOJ))/FEMA Facility Bothell and FBI Radio Shop Seattle	425-418-3069	Motorola/ XTS-5000/ XTS-4000	VHF

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
IRV	U.S. DHS FEMA - MERS (Bothell, WA) / 200 228TH ST SW, Bothell, WA	xxx-xxx-xxxx
IRV-DT		
IRV-DV		
IRV-FD		
IRV-MA		
IRV-TV		

WASHINGTON STATE INTEROPERABLE CHANNELS

VHF Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
CEMNET F1	Emergency Management	45.200	45.200	127.3 Hz
CEMNET F2		45.360	45.360	127.3 Hz
CEMNET F3		45.480	45.480	127.3 Hz
MARS[2]	Mutual Aid	154.650	155.190	100
Law Enforcement	LLAW1	39.4600	39.4600	CSQ/156.7
Fire (Proposed)	LFIRE2	39.4800	39.4800	CSQ/156.7
Law Enforcement	LLAW3	45.8600	45.8600	CSQ/156.7
Fire	LFIRE4	45.8800	45.8800	CSQ/156.7
Tactical – WB FM	VTAC17	157.2500	161.8500	
Tactical – WB FM	VTAC17D	161.8500	161.8500	

Default operation should be carrier squelch receive, CTCSS 156.7(5a) TX. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone should also be programmed for receive, and the user instructed how and when to enable/disable.

[2] The MARS 800 MHz talk group is only available on the King County 800 MHz System

Base Stations: 50 watts max, antenna HAAT 400 feet. max. Mobile Stations: 20 watts max, antenna HAAT 15 feet max. These channels are for tactical use and may not be operated on board aircraft in flight. These channels use narrowband FM and are available only in certain inland areas at least 100 miles from a major waterway. These channels are VHF Maritime channel 25 (all 33 areas). Use only where authorized. In these authorized areas, interoperability communications have priority over grandfathered public coast & public safety.

Search and Rescue

155.160 Primary SAR 1 NB
155.2425 SAR 2 NB
155.3025 SAR 3 NB

800 MHz Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
STATEOPS-1	State Operations	852.5375	852.5375	156.7
STATEOPS-2		852.5625	852.5625	156.7
STATEOPS-3		852.5875	852.5875	156.7
STATEOPS-4		852.6125	852.6125	156.7
STATEOPS-5		852.6375	852.6375	156.7

700 MHz Interoperable Channels (NB/Digital)

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
7 CALL70	Calling Channel	773.25625	803.25625	293
7 FIRE84	Fire Agencies	773.85625	803.85625	293
7 LAW81	Law Enforcement	774.00625	804.00625	293
7 TAC71	General Public Safety	773.10625	803.10625	293
7 TAC72	General Public Safety	773.60625	803.60625	293
7 TAC75	General Public Safety	773.75625	803.75625	293

VHF Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
CEMNET F1	Emergency Management	45.200	45.200	127.3
CEMNET F2		45.360	45.360	127.3
CEMNET F3		45.480	45.480	127.3
MARS[3]	Mutual Aid	154.650	155.190	100
LLAW1	Law Enforcement	39.4600	39.4600	CSQ/156.7
LFIRE2	Fire (Proposed)	39.4800	39.4800	CSQ/156.7
LLAW3	Law Enforcement	45.8600	45.8600	CSQ/156.7
LFIRE4	Fire	45.8800	45.8800	CSQ/156.7
Tactical – WB FM	VTAC17	157.2500	161.8500	
Tactical – WB FM	VTAC17D	161.8500	161.8500	
HEAR	Hospitals and Emergency Medical Services	155.340	155.340	CSQ W
LERN	LE	155.3700	155.370	100/100
On-Scene Command and Coordination (OSCCR)		156.1350	156.1350	CSQ/203.5
REDNET	State Fire	153.8300	153.8300	
Search and Rescue	SAR 1	155.1600	155.1600	CSQ
Scene TAC	DNR Common	151.4150	151.4150	103.5
Fire Mutual Aid	RED NET	153.8300	153.8300	CSQ

[3] The MARS 800 MHz talk group is only available on the King County 800 MHz System

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
Interop VTAC 11[4]	Multi Agency	151.1375	151.1375	CSQ/156.7
Interop VTAC 12	Multi Agency	154.4525	154.4525	CSQ/156.7
Interop VTAC 13	Multi Agency	158.7375	158.7375	CSQ/156.7
Interop VTAC 14	Multi Agency	159.4725	159.4725	CSQ/156.7
Chelan WX	Weather	162.4750	162.4750	CSQ W
Okngn WX	Weather	162.5250	162.5250	CSQ W
Benton WX	Weather	162.4500	162.4500	CSQ W
“State Common” (SP)	WSP	155.9700	155.9700	100/100
Marine 16	Marine	156.8000	156.8000	CSQ W

Default operation should be carrier squelch receive, CTCSS 156.7(5a) TX. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone should also be programmed for receive, and the user instructed how and when to enable/disable.

Base Stations: 50 watts max, antenna HAAT 400 feet. max. Mobile Stations: 20 watts max, antenna HAAT 15 feet max. These channels are for tactical use and may not be operated on board aircraft in flight. These channels use narrowband FM and are available only in certain inland areas at least100 miles from a major waterway. These channels are VHF Maritime channel 25 (all 33 areas). Use only where authorized. In these authorized areas, interoperability communications have priority over grandfathered public coast & public safety.

[4] VTAC 11 is cleared statewide and with Canada – channel of preference

700 MHz Interoperable Channels

Pierce C/TAC/Puy	Port of Seattle	King County	STATE
INTER OP	INTER OP	INTER OP	INTEROP
1 MA PC1	POS CALL	KC CALL	ST OPS1
2 MA PC2	POS IO 02	KC IO 02	ST OPS1D
3 PSOPS3	POS IO 03	KC IO 03	ST OPS2
4 PSOPS4	POS IO 04	KC IO 04	ST OPS2D
5 PCLERN	POS IO 05	KC IO 05	ST OPS3
6 ST OPS1D	POS IO 06	KC IO 06	ST OPS3D
7 ST OPS2D	POS IO 07	KC IO 07	ST OPS4
8 7CALL70*	POS IO 08	KC IO 08	ST OPS4D
9 7TAC71*	POS IO 09	KC IO 09	ST OPS5
10 7TAC72*	POS IO 10	KC IO 10	ST OPS5D
11 7TAC75*	POS IO 11	KC IO 11	
12 7LAW81*	POS IO 12	KC IO 12	
13 7FIRE84*	POS IO 13	KC IO 13	
13 7FIRE84*	POS IO 14	KC IO 14	
13 7FIRE84*	POS IO 15	KC IO 15	
16 TP EMERP	POS EM P	KC EM P	
	or	or	
	POS EM F	KC EM F	

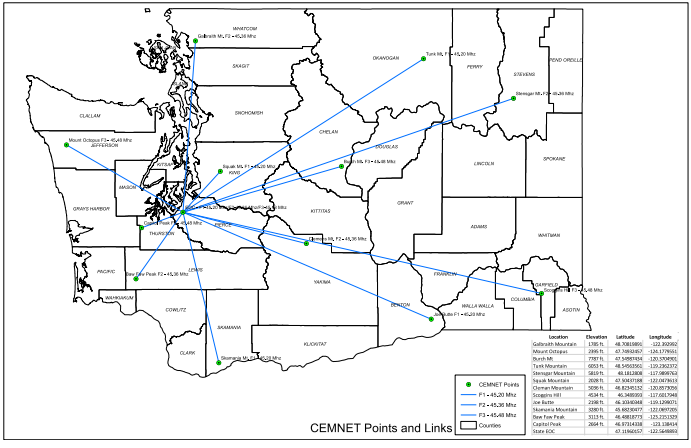
Pierce County	Tacoma/Puyallup	Port of Seattle	King County	State
INTER OP	INTER OP	INTER OP	INTER OP	INTEROP
PC CALL 1	1 MA PC1	POS CALL	KC CALL	ST OPS1
PC IOP 2	2 MA PC2	POS IO 02	KC IO 02	ST OPS1D
PC IOP 3	3 PSOPS3	POS IO 03	KC IO 03	ST OPS2
PC FIR 4	4 PSOPS4	POS IO 04	KC IO 04	ST OPS2D
PC FIR 5	5 PCLERN	POS IO 05	KC IO 05	ST OPS3
PC FIR 6	6 ST OPS1D	POS IO 06	KC IO 06	ST OPS3D
PC FIR 7	7 ST OPS2D	POS IO 07	KC IO 07	ST OPS4
PC FIR 8	8 7CALL70*	POS IO 08	KC IO 08	ST OPS4D
PC LE 9	9 7TAC71*	POS IO 09	KC IO 09	ST OPS5
PC LE 10	10 7TAC72*	POS IO 10	KC IO 10	ST OPS5D
PC LE 11	11 7TAC75*	POS IO 11	KC IO 11	
PC LE 12	12 7LAW81*	POS IO 12	KC IO 12	
PC LE 13	13 7FIRE84*	POS IO 13	KC IO 13	
PC LE 14	13 7FIRE84*	POS IO 14	KC IO 14	
PC L/F 15	13 7FIRE84*	POS IO 15	KC IO 15	
PC EMERP	16 TP EMERP	POS EM P	KC EM P	
		POS EM F	KC EM F	

WASHINGTON STATE ASSET LOCATION MAPS (ALL REGIONS 1 THRU 9)

OSCCR Towers in Washington

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or to obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

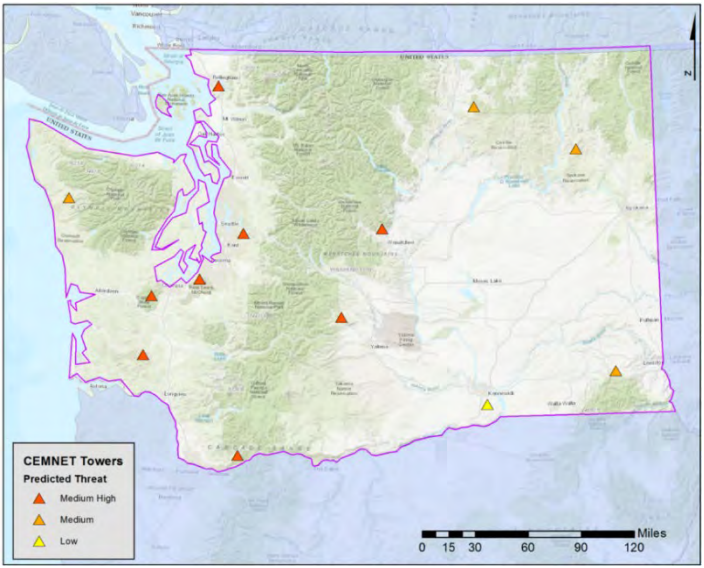
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	1785 ft.	48.70819891	-122.302692
Mount Octopus	2995 ft.	47.78958357	-124.177916
Bush Mt	7787 ft.	47.54987834	-120.3708901
Tunk Mountain	6953 ft.	48.54503551	-119.2362372
Stensgar Mountain	5819 ft.	46.1812808	-117.9809762
Steptoe Mountain	2078 ft.	47.30437288	-117.5673619
Cherry Mountain	5096 ft.	46.82945152	-120.8579056
Scoggins Hill	4534 ft.	46.3488203	-117.6815948
Jim Butte	2398 ft.	46.41040648	-119.1290171
Skamania Mountain	3280 ft.	45.66240477	-122.0855205
New Jay Peak	3113 ft.	46.48818773	-123.2213329
Capitol Peak	2664 ft.	46.47114338	-123.138434
State EOC		47.11962027	-122.5448864

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from the State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.

NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

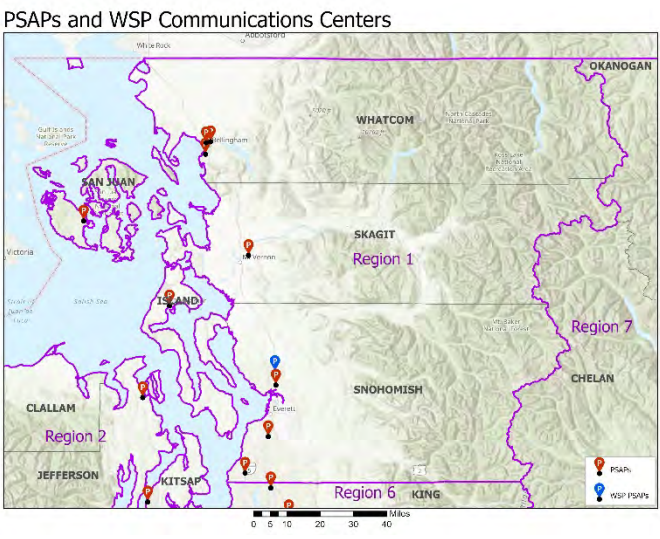
ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

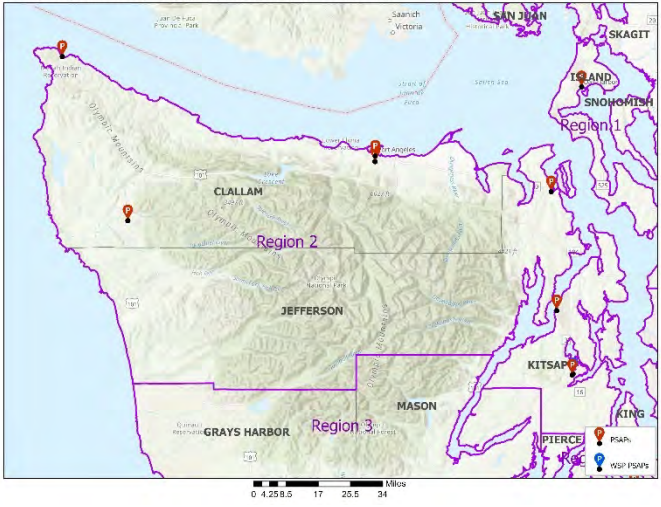
Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers

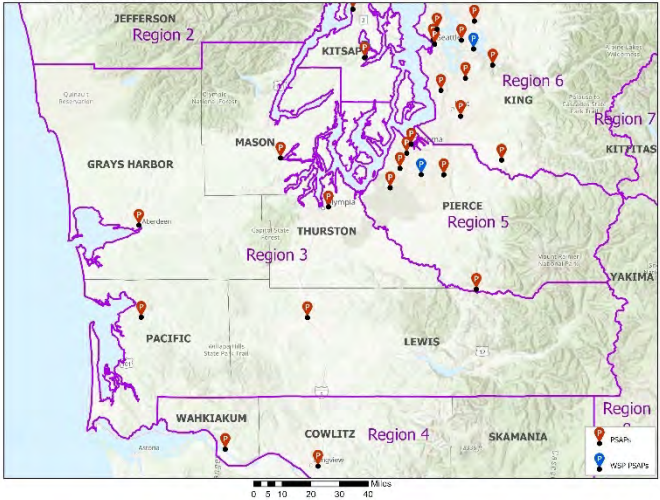
Regions 1 through 9



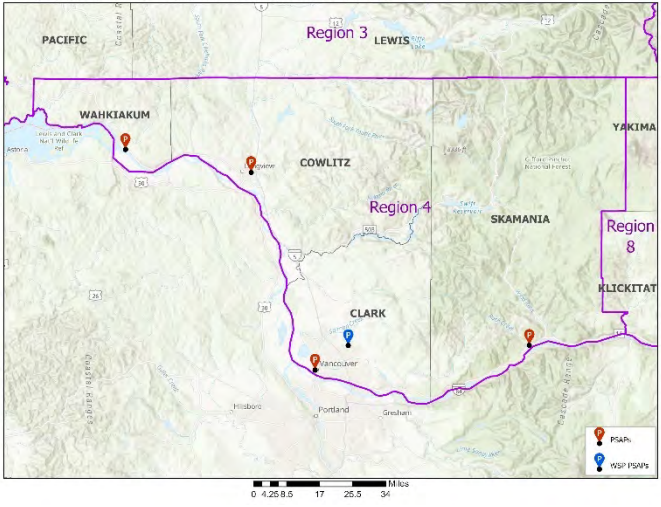
PSAPs and WSP Communications Centers



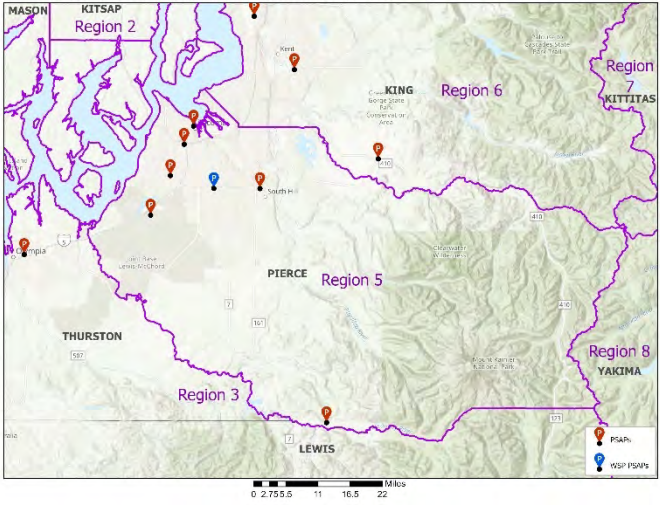
PSAPs and WSP Communications Centers



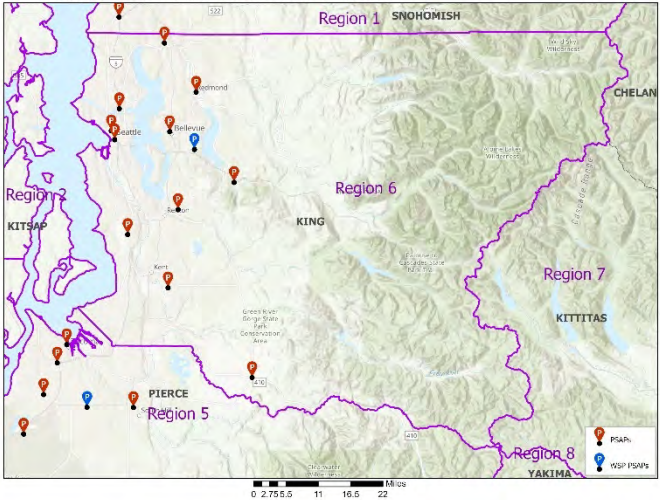
PSAPs and WSP Communications Centers



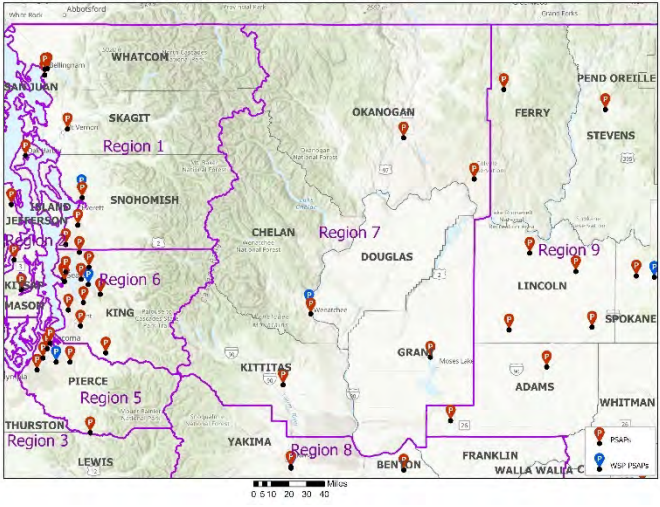
PSAPs and WSP Communications Centers



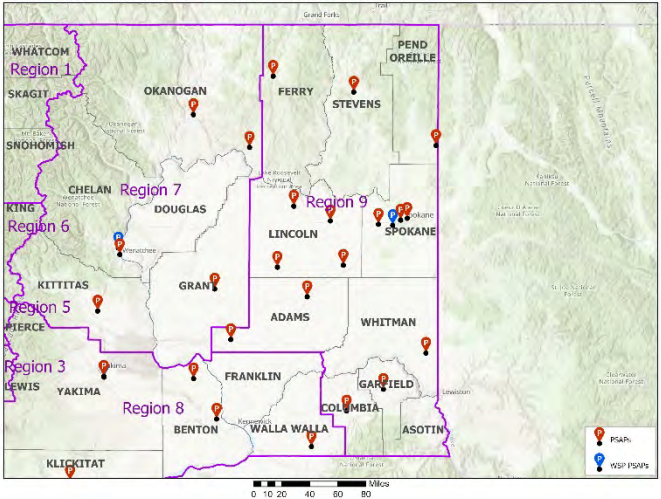
PSAPs and WSP Communications Centers



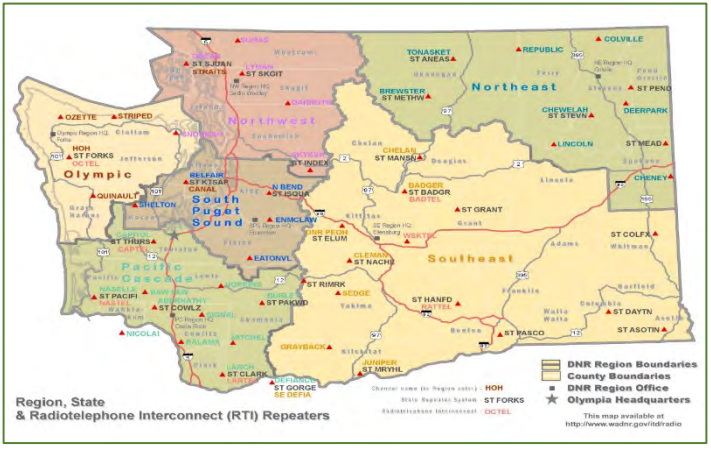
PSAPs and WSP Communications Centers



PSAPs and WSP Communications Centers



DNR Repeater Sites



DNR SIMPLEX FREQUENCIES

Name	User RX	Tone	User TX	Tone	Notes
DNR Common	151.4150	103.5	151.4150	103.5	
DNR Air to Ground	159.2700	103.5	159.2700	103.5	1
DNR TAC 1	151.3100	103.5	151.3100	103.5	
DNR TAC 2	151.3400	103.5	151.3400	103.5	
DNR TAC 3	159.2925	103.5	159.2925	103.5	2
DNR TAC 4	159.2775	103.5	159.2775	103.5	3
DNR TAC 5	151.3475	103.5	151.3475	103.5	4
DNR TAC 6	159.3675	103.5	159.3675	103.5	2

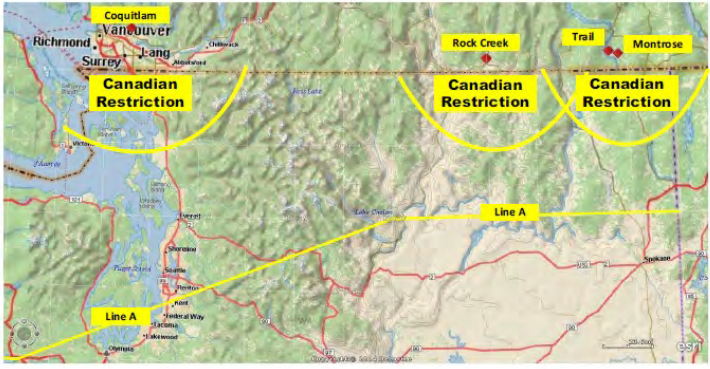
DNR Portable Repeaters

Name	RX	RX Tone	TX	RX Tone	Notes
DNR Portable Repeater 1	159.4125	103.5	151.2875	103.5	1, 2
DNR Portable Repeater 2	159.3075	103.5	151.4225	103.5	1, 4
DNR Portable Repeater 3	159.3300	103.5	151.3850	103.5	1, 3, 4
DNR Portable Repeater 4	159.3750	103.5	151.3700	103.5	3, 4
DNR Portable Repeater 5	159.2400	103.5	151.2650	103.5	3, 4
DNR Portable Repeater 6	159.3600	103.5	151.4750	103.5	1, 3, 4
Tone A = 103.5 — Tone B = 88.5 — Tone C = 118.8					

Name	RX	RX Tone	TX	TX Tone	Notes
OSCCR	156.1350	None	156.1350	203.5	
LERN	155.3700	None	155.3700	100	
NLEC	155.4750	None	155.4750	None	
REDNET	153.8300	None	153.8300	None	
DNR COMMON	151.4150	103.5	151.4150	103.5	
HEAR	155.3400	None	155.3400	None	
SAR	155.1600	None	155.1600	None	
VCALL10*^	155.7525	None	155.7525	203.5	
VTAC 11*	151.1375	None	151.1375	203.5	
VTAC 12*^	154.4225	None	154.4225	203.5	
VTAC 13*^	158.7375	None	158.7375	203.5	
VTAC 14*^	159.4725	None	159.4725	203.5	

*Narrowband analog channel 12.5 KHz.
^In most cases, these frequencies are restricted near the Canadian border.

Department of Fish & Wildlife (DFW)

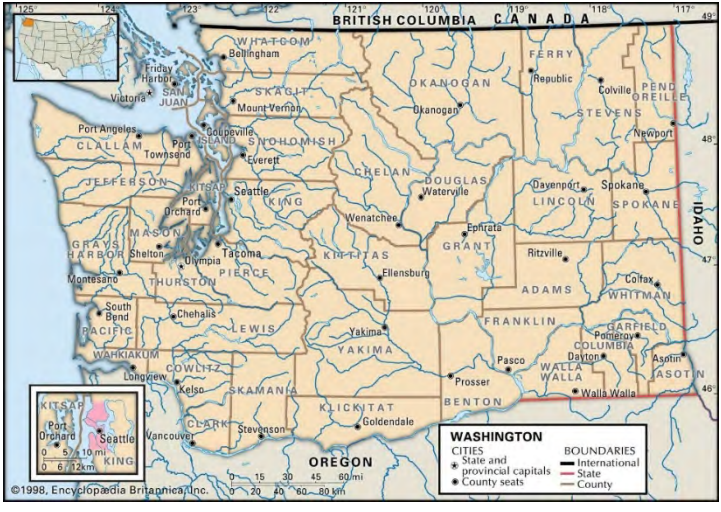


DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these may be used as a last resort. As noted, there are Canadian restrictions.

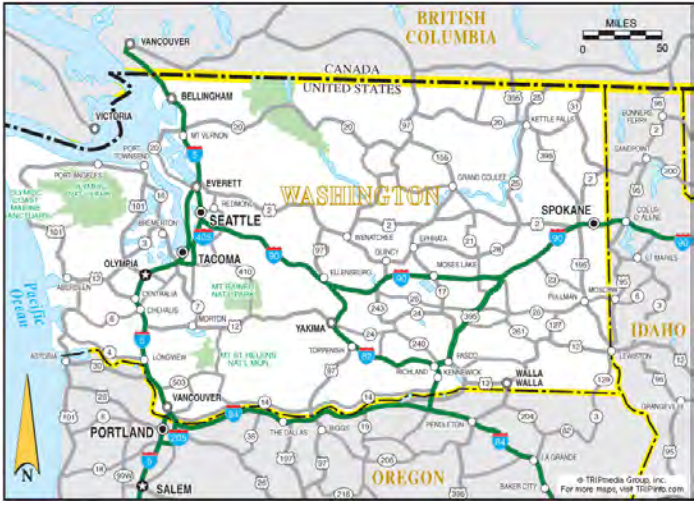
Name	User RX	Tone	User TX	Tone	Notes
DFW TAC 6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC.

Washington State Boundaries



Washington State Road Map



REGION 1

Counties	Tribes within Counties	Cities within Counties
Island	NA	NA
San Juan	NA	NA
Skagit	Samish Nation, Swinomish, and Upper Skagit Tribe	NA
Snohomish	Tulalip Tribe, Sauk-Suiattle Tribe and Stillaguamish Tribe	Stanwood, Marysville, Medina, Monroe, and Stanwood
Whatcom	Nooksack Tribe and Lummi Nation	Bellingham

Region 1 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	Washington (WA) State Emergency Management Agency (EMA)	VHF HB	253-512-7176
Comprehensive Emergency Management Network (CEMNET)	Washington State EMA	VHF LB	253-512-7176
State Emergency Communications Using Radio Effectively (SECURE)	Washington State EMA	HF	253-512-7176
WSP Radio (Marysville)	Washington State Patrol (WSP)	VHF/700 MHz P25 Phase II	360-654-1204
WSDOT Radio Intelligent Transportation Systems (ITS) & Wireless Technology	Washington State Department of Transportation (WSDOT)	VHF H-Band 800 MHz to 700 MHz P25 Phase II	206-440-4490
Department of Natural Resources (DNR) Radio	DNR	VHF H-Band	360-902-1480
WILDCOMM	Department of Fish & Wildlife (DFW)	VHF Hi-Band/ UHF Trunked/ and Conv./	360-902-2928 0700-1700 daily)

System Name	Agency	Freq	24 Hr. #
		700 MHz Trunked/800 MHz Trunked	
DOC Radio	Department of Corrections (DOC)	800 MHz	360-725-8888
Washington State Department of Enterprise Services (DES) Capitol Complex Radio	DES		
IWIN	Federal Bureau of Investigations (FBI)	800 MHz SmartZone V4.1	425-487-4621
SERS	Snohomish County Emergency Radio System (SERS)	800 MHz SmartZone V4.1	425-359-1926
SERS	Snohomish County 911	VHF/UHF/800 MHz Motorola Trunked SmartZone V4.1 Mixed Mode	425-359-1926
RACES		Echolink/HF-UHF	
Port of Seattle		800 MHz SmartZone V4.1	206-610-0391

SECURE: Operates on 8 discrete frequencies, Fixed HF stations are in State EOC and each WSP district communications center and is licensed to operate on up to 5 mobile stations.

SECURE serves as a "secondary" limited back-up communications system for direction and control use within the state, as needed. It also serves as a capability to communicate with FEMA Region X, Idaho, and Oregon. It is an HF radio system employing two stations located in the state Emergency Operations Center (EOC), the Spokane EOC, and a mobile station operated by the Military Department. The frequencies authorized by FCC and FEMA for use on the system are:

Primary (Day): 5.192 MHz
Primary (Night): 2.411 MHz
Primary (Day - Interstate): 7.805 MHz
Primary (Night - Interstate): 2.326 MHz
Other assigned frequencies: 2.801 MHz, 2.414 MHz, 2.587 MHz, and 7.935 MHz

Frequencies are operated upper sideband (USB). A local jurisdiction EOC will operate on this system when the need is identified, and the capability is provided by the state EMD Telecommunications and Warning Program Manager.

DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these may be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC 6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC.

GATEWAYS

Fixed Gateways

Name/Gateway Type	24 Hr. #	Agency
Snohomish DEM/ACU-1000	425 320-9189	Snohomish Co. EM

Transportable/Mobile Gateways

Name/Gateway Type	24 Hr. #	Agency
IWN-FBI/ACU-1000	206-622-0460	FBI Radio Shop, Seattle
IWN-DEA/ACU-1000	206-553-5512	DEA Seattle
Snohomish Co./ACU-1000	425-407-3930	Snohomish 911/Stored at: Snohomish Co. Emergency Radio System Offices
DEM10/ACU-M	425 320-9189	Snohomish Co. EM
COM1/ACU-1000	425 320-9189	Snohomish Co. EM
COM2/ACU-1000	425 320-9189	Snohomish Co. EM
ACU-5000 (mobile mount)	360-725-8888	DOC

Note: The DEA has one RIOS mobile interoperability unit and is a mobile ACU-1000 gateway system that includes 12 radio connections that can be configured to provide up to 7 interconnects.

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type

No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
Snohomish Co. DEM VHF	425 320-9189	Vertex VXR-7000/VHF	3U rolling case
VTAC 43/Snohomish Co. DEM	425 320-9189	ICOM FR-5000/VHF	Small Dry Box
UTAC 43/Snohomish Co. DEM	425 320-9189	Motorola/UHF	Small Pelican
443 Shared Non-Protected/Snohomish Co. DEM	425 320-9189	ICOM FR-6000/UHF	Small Pelican

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
IWN (United State Department of Justice (USDOJ))/ FEMA Facility Bothell and FBI Radio Shop Seattle	425-418-3069	Motorola/XTS-5000/XTS-4000	VHF
Snohomish Co.			
Kitsap Co.			
City of Bellingham Fire Department (FD)		Motorola/HT1000 (15)	VHF/ H-Band
City of Bellingham Police Department (PD)		Motorola/HT 1000 UHF (15)	UHF
Northwest Washington Incident Management Team (IMT)/Lynnwood FD			
Skagit County DEM		Bendix King/DPH (24)	VHF/ H-Band

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
IRV	U.S. DHS FEMA - MERS (Bothell, WA)/200 228TH ST SW Bothell, WA	xxx-xxx-xxxx
IRV-DT		
IRV-DV		
IRV-FD		
IRV-MA		
IRV-TV		
DEM	Snohomish Co. EM/720 80th St SW, Bldg. A, Everett, WA 98203	425 320-9189
COM2		
COM1	Marysville Public Safety Bldg., 1635 Grove St., Marysville, WA 98270	
MOCC	DOC/Tumwater, WA	360-725-8774

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Table added from WA State R1 Table

Ch Config	Name	Primary Use	Frequency		Tone
			Rx	Tx	Rx/Tx
WB/ANALOG					
6 MTR	LYMAN5	Skagit	53.0900	51.3900	100.0
6 MTR	CULT5	Skagit	53.5900	51.8900	100.0
2 MTR	LYMAN1	Skagit	145.1900	144.5900	127.3
2 MTR	SUMASV	Whatcom	145.2300	144.6300	103.5
2 MTR		San Juan	146.7000	146.1000	131.8
2 MTR		San Juan	146.7400	146.1400	127.3
2 MTR	MTCONV	Whatcom	146.7400	146.1400	103.5
2 MTR	LYNNWD	Snohomish	146.7800	146.1800	D172
2 MTR	RCLYNN	Snohomish	146.8000	146.2000	136.5
2 MTR		Island	146.8600	146.2600	127.3
2 MTR	GRANIT	Snohomish	146.9200	146.3200	123.0
2 MTR	KINGV	Whatcom	147.1600	147.7600	103.5
2 MTR	EVERT1	Snohomish	147.1800	147.7800	103.5
2 MTR		Island	147.2200	147.8200	127.3
2 MTR		Camano Island	147.3600	147.9600	127.3
222 MHz	LYMAN2	Skagit	223.8600	222.2600	103.5
222 MHz		Camano Island	223.8800	222.2800	103.5
222 MHz	LKOUT2	Whatcom	224.1600	222.5600	156.7

Ch Config	Name	Primary Use	Frequency		Tone
			Rx	Tx	Rx/Tx
222 MHz	FIRET2	Snohomish	224.3800	222.7800	103.5
222 MHZ		San Juan	224.4800	222.8800	103.5
222 MHz	VUE-21	San Juan	224.5400	222.9400	67
222 MHZ	LYMN2A	Skagit	224.7800	223.1800	103.5
222 MHz	KING21	Whatcom	224.8600	223.2600	103.5
70CM	CLINTN	Snohomish	440.3750	445.3750	103.5
70CM	BLAINU	Whatcom	440.3750	445.3750	107.2
70CM	SUMASU	Whatcom	440.3750	445.3750	131.8
70CM		Camano Island	441.0500	446.0500	103.5
70CM	CHOUSU	Whatcom	441.9250	446.9250	103.5
70CM	LOOK4O	Reg. 1 Whatcom	442.2500	447.2500	156.7
70CM	SEHOMU	Whatcom	442.3000	447.3000	156.7
70CM	LYMAN4	Skagit	442.4000	447.4000	107.2
70CM		Snohomish	442.6750	447.6750	127.3
70CM	BARLOW	Snohomish	442.8000	447.8000	173.8
70CM	CHRCHU	Whatcom	442.8250	447.8250	156.7
70CM	CLEARV`	Snohomish	442.9750	447.9750	D172
70CM	PTROBU	Whatcom	443.3000	448.3000	100
70CM	KINGU	Whatcom	443.6500	448.6500	103.5
70CM	MTLAKE	Snohomish	443.7250	448.7250	103.5
70CM	SQUALU	Whatcom	443.7500	448.7500	103.5
70CM	RCHAYS	Snohomish	443.8750	448.8750	127.3
70CM	DARRNG	Snohomish	443.8750	448.8750	103.5
70CM	BOEEVT	Snohomish	443.9250	448.9250	100.0
70CM	SWEDSH	Snohomish	444.0250	449.0250	103.5
70CM	MTCONU	San Juan	444.0500	449.0500	103.5
70CM	FIRET4	Snohomish	444.2000	449.2000	103.5

Ch Config	Name	Primary Use	Frequency		Tone
			Rx	Tx	Rx/Tx
70CM	LYMN4O	Skagit	444.5000	449.5000	103.5
70CM	EVERT4	Snohomish	444.5750	449.5750	103.5
70CM	CULT4O	Skagit	444.6250	449.6250	103.5
70CM	ARC HS	Snohomish	444.9750	449.9750	114.8
NB/Digital					
70CM/DSTR	GFALD	Snohomish	440.3250	445.3250	NR7SS
70CM DSTR	EVERTD	Snohomish	440.3500	445.3500	NR7SS

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.

INTEROPERABLE AND MUTUAL AID FREQUENCIES

VHF Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
CEMNET F1	Emergency Management	45.200	45.200	127.3
CEMNET F2		45.360	45.360	127.3
CEMNET F3		45.480	45.480	127.3
MARS[5]	Mutual Aid	154.650	155.190	100
Law Enforcement (LE)	LLAW1	39.4600	39.4600	CSQ/156.7
Fire (Proposed)	LFIRE2	39.4800	39.4800	CSQ/156.7
Law Enforcement	LLAW3	45.8600	45.8600	CSQ/156.7
Fire	LFIRE4	45.8800	45.8800	CSQ/156.7
Tactical – WB FM	VTAC17	157.2500	161.8500	
Tactical – WB FM	VTAC17D	161.8500	161.8500	

Default operation should be carrier squelch receive, CTCSS 156.7(5a) TX. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone should also be programmed for receive, and the user instructed how and when to enable/disable.

Base Stations: 50 watts max, antenna HAAT 400 feet. max. Mobile Stations: 20 watts max, antenna HAAT 15 feet max. These channels are for tactical use and may not be operated on board aircraft in flight. These channels use narrowband FM and are available only in certain inland areas at least100 miles from a major waterway. These channels are VHF Maritime channel 25 (all 33 areas). Use only where authorized. In these authorized areas, interoperability communications have priority over grandfathered public coast & public safety.

Search and Rescue
155.160-Primary WB SAR / 155.2425 -SAR2 NB / 155.3025-SAR3 NB

[5] The MARS 800 MHz talk group is only available on the King County 800 MHz System

800 MHz Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
Snohomish County 800 MHz Trunked System PSOPS-N3/ PSOPS-N4	Fire/Law Enforcement Interop			
STATEOPS-1	State Operations	852.5375	852.5375	156.7
STATEOPS-2		852.5625	852.5625	156.7
STATEOPS-3		852.5875	852.5875	156.7
STATEOPS-4		852.6125	852.6125	156.7
STATEOPS-5		852.6375	852.6375	156.7

WASHINGTION REGION 1 CHANNELS

Ch Config	Name	Primary Use	Frequency		Tone
			Rx	Tx	Rx/Tx
No Data					

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

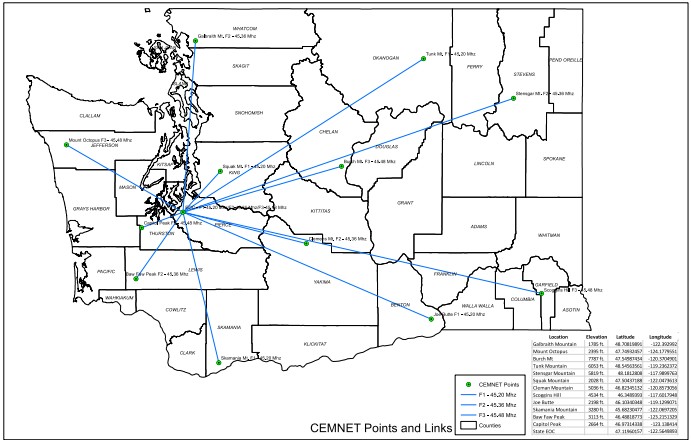
Agency	24 Hr. #
No Data	

REGION 1 MAPS

OSCCR Towers in Region 1

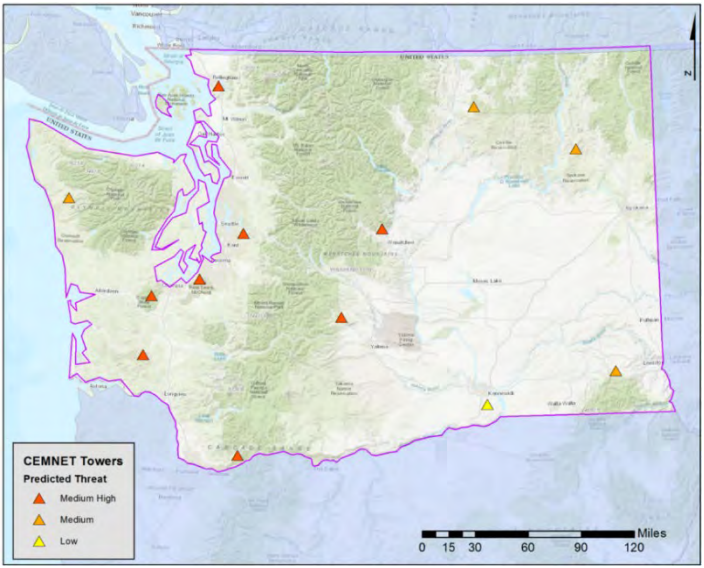
OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or to obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

Washington State CEMNET



12 sites operating on 3 VHF low-band frequencies, Base stations controlled from the State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

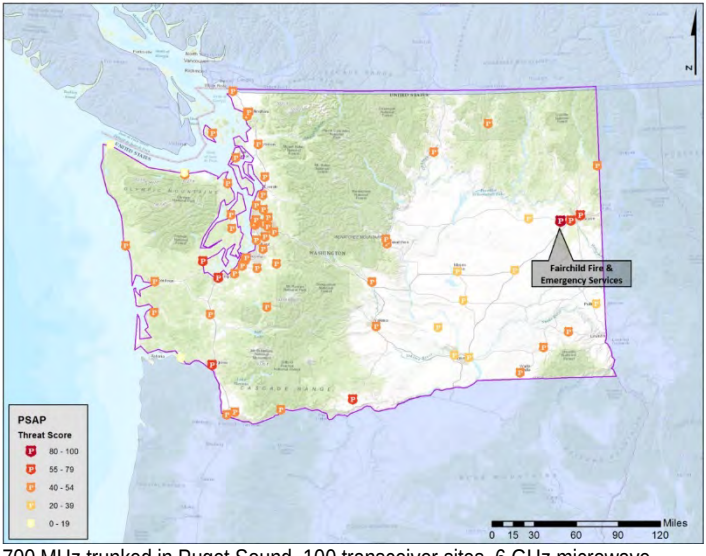
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

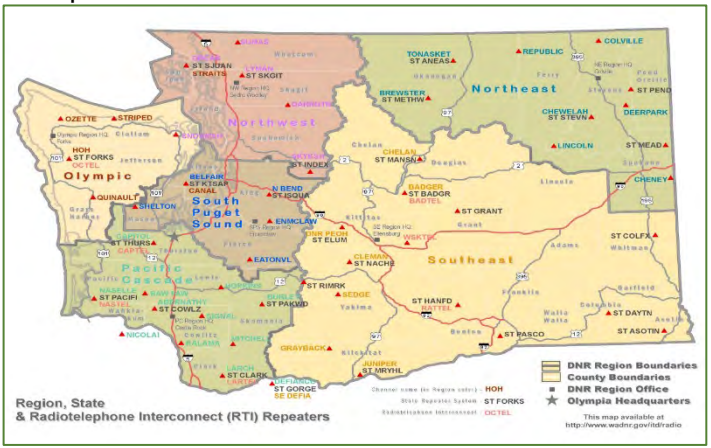
Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

DNR Repeater Sites



DNR SIMPLEX FREQUENCIES

Name	User RX	Tone	User TX	Tone	Notes
DNR Common	151.4150	103.5	151.4150	103.5	
DNR Air to Ground	159.2700	103.5	159.2700	103.5	1
DNR TAC 1	151.3100	103.5	151.3100	103.5	
DNR TAC 2	151.3400	103.5	151.3400	103.5	
DNR TAC 3	159.2925	103.5	159.2925	103.5	2
DNR TAC 4	159.2775	103.5	159.2775	103.5	3
DNR TAC 5	151.3475	103.5	151.3475	103.5	4
DNR TAC 6	159.3675	103.5	159.3675	103.5	2

DNR Portable Repeaters

Name	RX	RX Tone	TX	RX Tone	Notes
DNR Portable Repeater 1	159.4125	103.5	151.2875	103.5	1, 2
DNR Portable Repeater 2	159.3075	103.5	151.4225	103.5	1, 4
DNR Portable Repeater 3	159.3300	103.5	151.3850	103.5	1, 3, 4
DNR Portable Repeater 4	159.3750	103.5	151.3700	103.5	3, 4
DNR Portable Repeater 5	159.2400	103.5	151.2650	103.5	3, 4
DNR Portable Repeater 6	159.3600	103.5	151.4750	103.5	1, 3, 4

Name	RX	RX Tone	TX	TX Tone	Notes
OSCCR	156.1350	None	156.1350	203.5	
LERN	155.3700	None	155.3700	100	
NLEC	155.4750	None	155.4750	None	
REDNET	153.8300	None	153.8300	None	
DNR COMMON	151.4150	103.5	151.4150	103.5	
HEAR	155.3400	None	155.3400	None	
SAR	155.1600	None	155.1600	None	
VCALL*^	155.7525	None	155.7525	156.7	
VTAC 1*	151.1375	None	151.1375	156.7	
VTAC 2*^	154.4225	None	154.4225	156.7	
VTAC 3*^	158.7375	None	158.7375	156.7	
VTAC 4*^	159.4725	None	159.4725	156.7	
RPTR 1*	159.3750	None	151.3700	None	
RPTR 2*	159.3300	None	151.3850	None	
RPTR 3*	159.2400	None	151.2650	None	
RPTR 4*	159.3300	None	151.2500	None	
RPTR 5*	172.3750	None	170.5750	None	

*Narrowband analog channel 12.5 KHz.

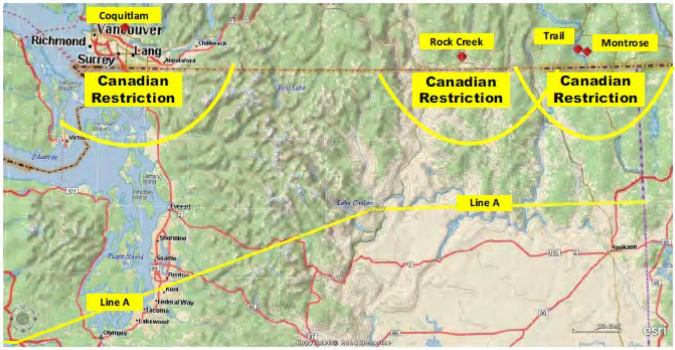
^In most cases, these frequencies are restricted near the Canadian border.

DNR Northwest Region **(this was crossed out of Region 5 Data, is this data still applicable?)**

60-856-3500 / 919 N Township, Sedro Wooley, WA 98284 /
Dispatch Center Northwest Region Headquarters
Dispatch Phone 360-854-2824 / Call Sign “Northwest”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Arlington	159.3300	156.7	151.2500	192.8	Frailey Mtn	48-18-08.0 121-59-48.0
Lyman	159.3750	141.3	151.3700	141.3	Lyman Hill	48-35-39.4 122-09-39.6
Orcas	159.2400	114.8	151.2350	114.8	Mt Constitution	48-40-40.4 122-49-58.7
Sauk	159.2850	141.3	151.3850	141.3	Leonard Ridge	48-27-48.0 121-45-18.0
Snohomish	159.4350	141.3	151.1900	141.3	Maynard Hill	48-00-58.3 122-55-36.6
Stevens	159.3600	141.3	151.3775	141.3	Sobieski Mtn	47-40-52.4 121-19-42.4
Sumas	159.3150	141.3	151.3250	141.3	Sumas Mtn	48-54-34.4 122-13-21.6
State Index	159.4200	D516	151.2950	D516	Sobieski Mtn	47-40-52.4 121-19-42.4
State Oso	159.4200	D731	151.2950	D731	Frailey Mtn	48-18-08.0 121-59-48.0
State San Juan	159.4200	D143	151.2950	D143	Mt Constitution	48-40-40.4 122-49-58.7
State Skagit	159.4200	D073	151.2950	D073	Lyman Hill	48-35-39.4 122-09-39.6

Department of Fish & Wildlife (DFW)

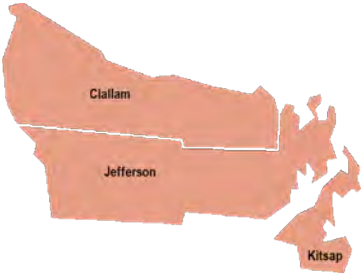


DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these are to be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC.

REGION 2



Counties	Tribes within Counties	Cities within Counties
Clallam	Jamestown S'Klallam Tribe, Lower Elwha Klallam Tribe, Makah Tribe, and Quileute Tribe	NA
Jefferson	Hoh Tribe and Quinault Nation	NA
Kitsap	Suquamish Tribe and Port Gamble S'Klallam Tribe	NA

Region 2 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Bremerton)	WSP	VHF/700 MHz P25 Phase II	360-473-0319
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB/800 MHz to 700 MHz P25 Phase II	253-538-3300
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv/700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
Snohomish Co. 911	Snohomish County Emergency Radio System (SERS)	800 MHz SmartZone V4.1	425-359-1926
BIA Radio System (Includes Upper Skagit and Saul Suiattle)	Skagit 911	VHF/UHF	

Other Shared System Information

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253-512-7036

SECURE: Operates on 8 discrete frequencies, Fixed HF stations are in State EOC and each WSP district communications center and is licensed to operate on up to 5 mobile stations.

SECURE serves as a "secondary" limited back-up communications system for direction and control use within the state, as needed. It also serves as a capability to communicate with FEMA Region X, Idaho, and Oregon. It is an HF radio system employing two stations located in the state Emergency Operations Center (EOC), the Spokane EOC, and a mobile station operated by the Military Department. The frequencies authorized by FCC and FEMA for use on the system are:

Primary (Day): 5.192 MHz
Primary (Night): 2.411 MHz
Primary (Day - Interstate): 7.805 MHz
Primary (Night - Interstate): 2.326 MHz
Other assigned frequencies: 2.801 MHz, 2.414 MHz, 2.587 MHz, and 7.935 MHz

Frequencies are operated upper sideband (USB). A local jurisdiction EOC will operate on this system when the need is identified, and the capability is provided by the state EMD Telecommunications and Warning Program Manager.

DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these are to be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC 6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC

GATEWAYS

Fixed Gateways

Name/Gateway Type	24 Hr. #	Location/Agency
None		

Transportable/Mobile Gateways

Name/Gateway Type	24 Hr. #	Location/Agency
IWN – FBI / ACU-1000	206-622-0460	FBI Radio Shop, Seattle
IWN – DEA / ACU-1000	206-553-5512	DEA in Seattle, WA

Note: The DEA has one RIOS mobile interoperability unit and is a mobile ACU-1000 gateway system that includes 12 radio connections that can be configured to provide up to 7 interconnects.

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type
No Data			

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
DOT		Aircraft / SAR	

KITSAP REPEATER CHANNELS (WB/ANALOG)

Name	User	Rx	Tx	Tone Rx/Tx	Notes
V1 / KCEOC	Primary	145.4300	144.8300	88.5	LAARS/
V3 / WSARC	Alternate	145.3900	144.7900	88.5	RACES/
V30 / BLYN Meter	Coordination	53.3700	51.6700	100.0	ARES
Send updates or questions to KI&LEE@winlink.org or KI7LEE@arrl.net					

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
No Data			

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
No Data		xxx-xxx-xxxx

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.

INTEROPERABLE AND MUTUAL AID FREQUENCIES

VHF Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
CEMNET F1	Emergency Management	45.200	45.200	127.3
CEMNET F2		45.360	45.360	127.3
CEMNET F3		45.480	45.480	127.3

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
MARS[6]	Mutual Aid	154.650	155.190	100
LLAW1	Law Enforcement	39.4600	39.4600	CSQ/156.7
LFIRE2	Fire (Proposed)	39.4800	39.4800	CSQ/156.7
LLAW3	Law Enforcement	45.8600	45.8600	CSQ/156.7
LFIRE4	Fire	45.8800	45.8800	CSQ/156.7
Tactical – WB FM	VTAC17	157.2500	161.8500	
Tactical – WB FM	VTAC17D	161.8500	161.8500	
HEAR	Hospitals and Emergency Medical Services	155.340	155.340	CSQ W
LERN	LE	155.3700	155.370	CSQ/100
OSCCR		156.1350	156.1350	CSQ/203.5
REDNET	State Fire	153.8300	153.8300	
Search and Rescue	SAR	155.1600	155.1600	CSQ
Scene TAC	DNR Common	151.4150	151.4150	103.5
Fire Mutual Aid	RED NET	153.8300	153.8300	CSQ W
Interop VTAC 11	Multi Agency	151.1375	151.1375	CSQ/156.7
Interop VTAC 12	Multi Agency	154.4525	154.4525	CSQ/156.7
Interop VTAC 13	Multi Agency	158.7375	158.7375	CSQ/156.7
Interop VTAC 14	Multi Agency	159.4725	159.4725	CSQ/156.7
Chelan WX	Weather	162.4750	162.4750	CSQ W
Okngn WX	Weather	162.5250	162.5250	CSQ W
Benton WX	Weather	162.4500	162.4500	CSQ W

6 The MARS 800 MHz talk group is only available on the King County 800 MHz System

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
WSP “State Common”	WSP	155.9700	155.9700	100
Marine 16	Marine	156.8000	156.8000	CSQ W

Default operation should be carrier squelch receive, CTCSS 156.7(5a) TX. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone should also be programmed for receive, and the user instructed how and when to enable/disable.

Base Stations: 50 watts max, antenna HAAT 400 feet. max. Mobile Stations: 20 watts max, antenna HAAT 15 feet max. These channels are for tactical use and may not be operated on board aircraft in flight. These channels use narrowband FM and are available only in certain inland areas at least100 miles from a major waterway. These channels are VHF Maritime channel 25 (all 33 areas). Use only where authorized. In these authorized areas, interoperability communications have priority over grandfathered public coast & public safety.

Search and Rescue

155.160 Primary SAR 1 NB
155.2425 SAR 2 NB
155.3025 SAR 3 NB

800 MHz Interoperable Channels

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
STATEOPS-1	State Operations	852.5375	852.5375	156.7
STATEOPS-2		852.5625	852.5625	156.7
STATEOPS-3		852.5875	852.5875	156.7
STATEOPS-4		852.6125	852.6125	156.7
STATEOPS-5		852.6375	852.6375	156.7

700 MHz Interoperable Channels

Pierce Co./TAC/Puy	Port of Seattle	King County	State
INTER OP	INTER OP	INTER OP	INTEROP
1 MA PC1	POS CALL	KC CALL	ST OPS1
2 MA PC2	POS IO 02	KC IO 02	ST OPS1D
3 PSOPS3	POS IO 03	KC IO 03	ST OPS2
4 PSOPS4	POS IO 04	KC IO 04	ST OPS2D
5 PCLERN	POS IO 05	KC IO 05	ST OPS3
6 ST OPS1D	POS IO 06	KC IO 06	ST OPS3D
7 ST OPS2D	POS IO 07	KC IO 07	ST OPS4
8 7CALL70*	POS IO 08	KC IO 08	ST OPS4D
9 7TAC71*	POS IO 09	KC IO 09	ST OPS5
10 7TAC72*	POS IO 10	KC IO 10	ST OPS5D
11 7TAC75*	POS IO 11	KC IO 11	
12 7LAW81*	POS IO 12	KC IO 12	
13 7FIRE84*	POS IO 13	KC IO 13	
13 7FIRE84*	POS IO 14	KC IO 14	
13 7FIRE84*	POS IO 15	KC IO 15	
16 TP EMERP	POS EM P	KC EM P	
	or	or	
	POS EM F	KC EM F	

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

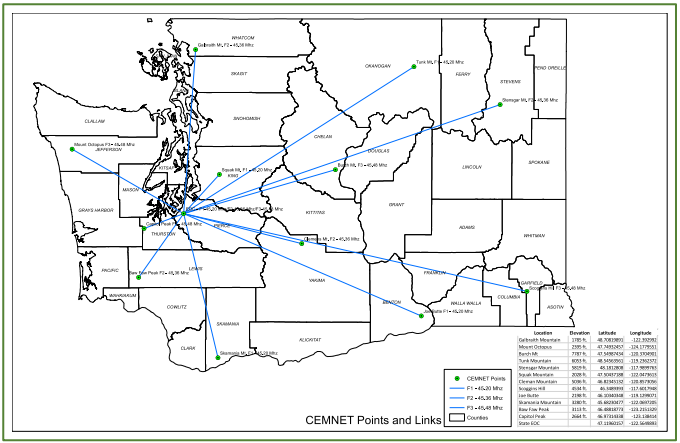
Agency	24 Hr. #
No Data	

REGION 2 MAPS

OSCCR Towers in Region 2

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

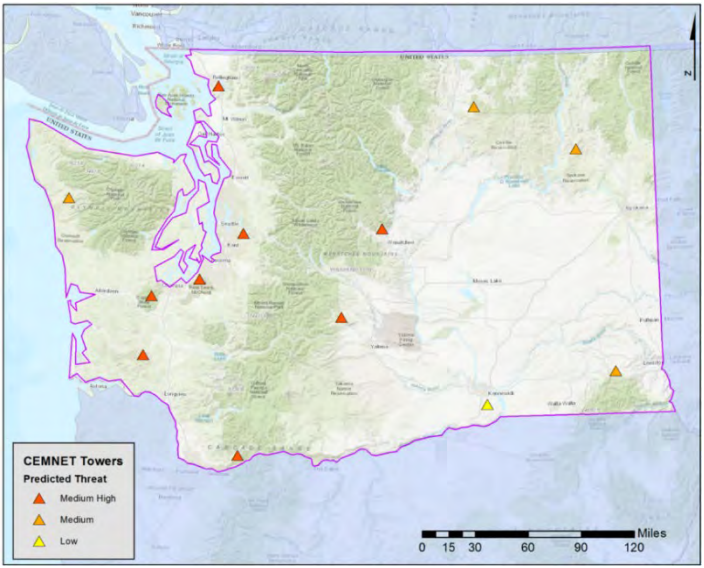
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.708289Ø	-122.302992
Mount Octopus	2395 ft.	47.749124Ø	-124.173516
Bunch Mt.	2785 ft.	48.349807Ø	-118.190301
Tunk Mountain	4353 ft.	48.5496Ø9Ø	-119.4962Ø1
Stemgan Mountain	3655 ft.	48.1312Ø8	-117.9999Ø1
Squak Mountain	2028 ft.	47.5Ø817Ø8	-122.0479Ø1
Elkman Mountain	3036 ft.	46.8196Ø1Ø2	-118.0578Ø6
Scoggins Hill	4548 ft.	46.1889Ø9Ø	-117.4017Ø8
Jim Butte	2196 ft.	46.1Ø483Ø8	-119.1496Ø1
Stemcania Mountain	6385 ft.	45.6Ø2Ø6Ø7	-121.0647Ø5
Raw Paw Peak	3113 ft.	46.4981Ø7Ø3	-121.2511Ø5
Capitol Peak	3644 ft.	46.8731Ø4Ø8	-123.1Ø81Ø4
State EOC		47.1196Ø217	-122.5698Ø1

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

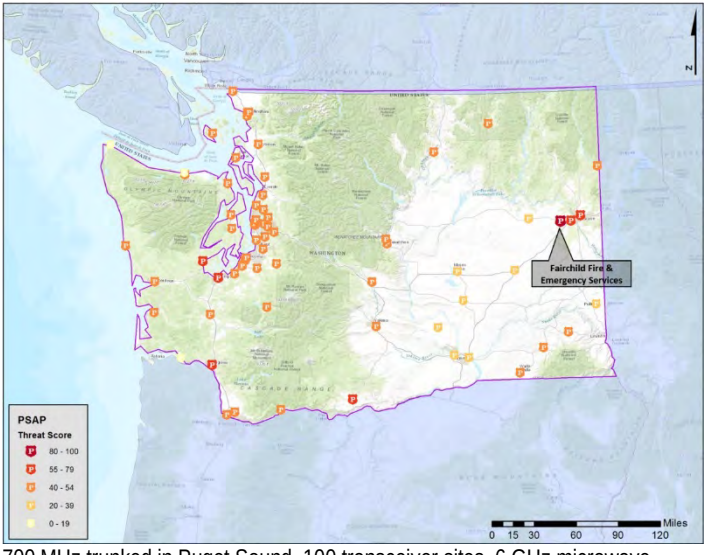
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

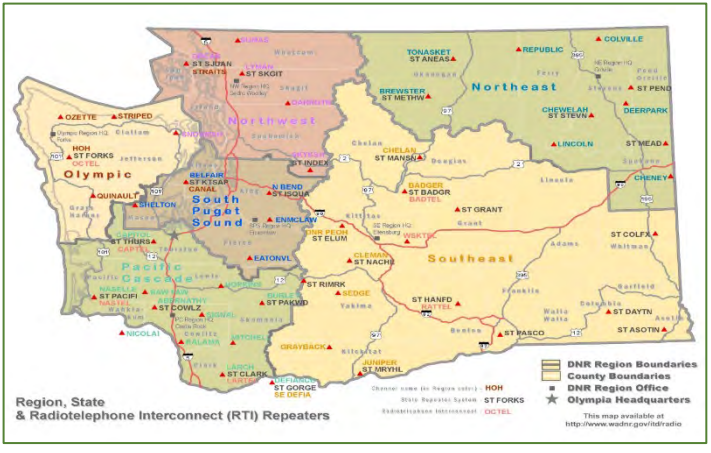
Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

DNR Repeater Sites



DNR SIMPLEX FREQUENCIES

Name	User RX	Tone	User TX	Tone	Notes
DNR Common	151.4150	103.5	151.4150	103.5	
DNR Air-to-Ground	159.2700	103.5	159.2700	103.5	1
DNR TAC 1	151.3100	103.5	151.3100	103.5	
DNR TAC 2	151.3400	103.5	151.3400	103.5	
DNR TAC 3	159.2925	103.5	159.2925	103.5	2
DNR TAC 4	159.2775	103.5	159.2775	103.5	3
DNR TAC 5	151.3475	103.5	151.3475	103.5	4
DNR TAC 6	159.3675	103.5	159.3675	103.5	2

DNR Portable Repeaters

Name	RX	RX Tone	TX	RX Tone	Notes
DNR Portable Repeater 1	159.4125	103.5	151.2875	103.5	1, 2
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DNR Portable Repeater 4	159.3750	103.5	151.3700	103.5	3, 4
DNR Portable Repeater 5	159.2400	103.5	151.2650	103.5	3, 4
DNR Portable Repeater 6	159.3600	103.5	151.4750	103.5	1, 3, 4
Tone A = 103.5 — Tone B = 88.5 — Tone C = 118.8					

Name	RX	RX Tone	TX	TX Tone	Notes
OSCCR	156.1350	None	156.1350	203.5	
LERN	155.3700	None	155.3700	100	
NLEC	155.4750	None	155.4750	None	
REDNET	153.8300	None	153.8300	None	
DNR COMMON	151.4150	103.5	151.4150	103.5	
HEAR	155.3400	None	155.3400	None	
SAR 1	155.1600	None	155.1600	None	
VCALL 10*^	155.7525	None	155.7525	156.7	
VTAC 11*	151.1375	None	151.1375	156.7	
VTAC 12*^	154.4225	None	154.4225	156.7	
VTAC 13*^	158.7375	None	158.7375	156.7	
VTAC 14*^	159.4725	None	159.4725	156.7	
*Narrowband analog channel 12.5 KHz. ^In most cases, these frequencies are restricted near the Canadian border.					

DNR Northwest Region (this was crossed out of Region 5 Data..is this data still applicable?)

60-856-3500 / 919 N Township, Sedro Wooley, WA 98284 /
Dispatch Center Northwest Region Headquarters
Dispatch Phone 360-854-2824 / Call Sign “Northwest”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Arlington	159.3300	156.7	151.2500	192.8	Frailey Mtn	48-18-08.0 121-59-48.0
Lyman	159.3750	141.3	151.3700	141.3	Lyman Hill	48-35-39.4 122-09-39.6
Orcas	159.2400	114.8	151.2350	114.8	Mt Constitution	48-40-40.4 122-49-58.7
Sauk	159.2850	141.3	151.3850	141.3	Leonard Ridge	48-27-48.0 121-45-18.0
Snohomish	159.4350	141.3	151.1900	141.3	Maynard Hill	48-00-58.3 122-55-36.6
Stevens	159.3600	141.3	151.3775	141.3	Sobieski Mtn	47-40-52.4 121-19-42.4
Sumas	159.3150	141.3	151.3250	141.3	Sumas Mtn	48-54-34.4 122-13-21.6
State Index	159.4200	D516	151.2950	D516	Sobieski Mtn	47-40-52.4 121-19-42.4
State Oso	159.4200	D731	151.2950	D731	Frailey Mtn	48-18-08.0 121-59-48.0
State San Juan	159.4200	D143	151.2950	D143	TBD	48-40-40.4 122-49-58.7
State Skagit	159.4200	D073	151.2950	D073	Lyman Hill	48-35-39.4 122-09-39.6

DNR Olympic Region
60-374-2800 / 411 Tillicum Lane, Forks, WA 98331
Dispatch Center Olympic Region Headquarters
Dispatch Phone: 360-374-2811 / Call Sign “Olympic”

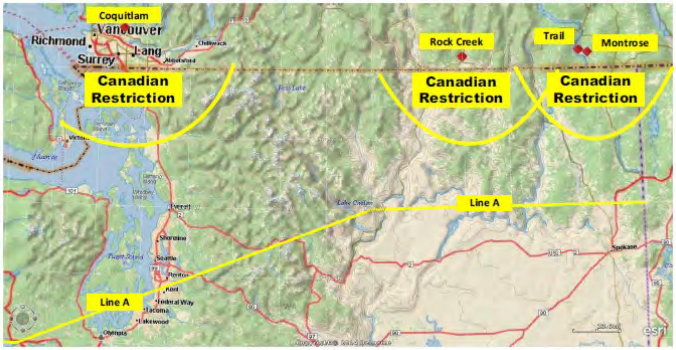
Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Canal	159.3450	103.5	151.1600	103.5	Gold Mtn	47-32-54.3 122-47-11.5
Discovery	159.4050	103.5	151.2200	206.5	Maynard Hill	48-00-58.3 122-55-36.6
Hoh	159.4350	103.5	151.1900	103.5	Octopus Mtn	47-44-58.3 124-10-10.7
Ozette	151.2050	192.8	159.2550	167.9	Ellis Mtn	48-07-44.3 124-18-21.8
Quinault	159.4575	127.3	151.3625	186.2	Neilton Point	47-23-24.0 123-52-00.6
Straits	159.3000	173.8	151.2650	173.8	Striped Peak	48-09-02.3 123-40-11.7
Wishkah	155.7600	114.8	151.1300	82.5	Weatherwax Rdg	47-20-13.0 123-36-07.0
State Forks	159.4200	D412	151.2950	D412	Octopus Mtn	47-44-58.3 124-10-10.7
State Sequim (proposed)	159.4200	D205	151.2950	D205	Blyn Mtn	48-00-58.3 122-55-36.6

DNR South Puget Sound Region
60-825-1631 / 950 Farman Ave N Enumclaw, WA 98022
Dispatch Center South Puget Sound Region Headquarters
Dispatch Phone 360-802-7080
Call Sign “South Puget”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Belfair	159.2550	114.8	151.2050	114.8	Gold Mtn	47-32-54.3 122-47-11.5
Capitol	159.2250	136.8	151.4300	173.8	Capitol Peak	46-58-27.0 123-08-21.5

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Carbon	159.3600	D072	151.3700	D065	Cowling Ridge	47-00-38.0 122-06-19.0
Eatonville	159.3075	114.8	151.2275	114.8	Puyallup Ridge	46-50-02.9 122-01-01.7
Enumclaw	159.4575	141.3	151.2575	141.3	Grass Mtn	47-12-14.4 121-47-44.4
North Bend	159.2925	114.8	151.3925	114.8	Rattlesnake Mtn	47-27-29.4 121-48-22.4
Shelton	159.3150	127.3	151.1750	127.3	North Mtn	47-18-45.3 123-22-19.6
State Issaquah	159.4200	D532	151.2950	D532	Rattlesnake Mtn	47-27-29.4 121-48-22.4
State Kitsap	159.4200	D315	151.2950	D315	Gold Mtn	47-32-54.3 122-47-11.5
State Rainier	159.4200	D743	151.2950	D743	Puyallup Ridge	46-50-02.9 122-01-01.7
State Thurston	159.2850	D244	151.2725	D244	Capitol Peak	46-58-27.0 123-08-21.5

Department of Fish & Wildlife (DFW)



DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these are to be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC.

REGION 3

Counties	Tribes within Counties	Cities within Counties
Grays Harbor	Quinault Nation	NA
Lewis	Chehalis Confederated Tribe	Centralia
Mason	Skokomish Tribe and Squaxin Island Tribe	NA
Pacific	Shoalwater Bay Tribe	NA
Thurston	Nisqually tribe	NA

Region 3 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Tacoma)	WSP	VHF/700 MHz P25 Phase II	253-538-3100
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB/ 800 MHz to 700 MHz P25 Phase II	253-538-3300
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv/700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
KITTCOM	Kittitas Co. 911 and Dispatch	VHF	
Olympic Public Safety Comms Network (OPSCAN)/ PENCOM Dispatch	Clallam Co.	UHF Police/VHF Fire	

GATEWAYS

Fixed Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

Transportable/Mobile Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
DOT	xxx-xxx-xxxx		

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
No Data	xxx-xxx-xxxx		

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
No Data		xxx-xxx-xxxx

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				
Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.				

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

Agency	24 Hr. #
No Data	xxx-xxx-xxxx

PACIFIC COUNTY RACES CHANNELS

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
WB/Analog				
PACCO Net Control Station	Log-Service	440.6750	445.6750	118.8
PACCO Net Control Station -	Log-Service	147.1800	147.7800	82.5
PACCO Net Control Station -	Log-Service	444.8000	449.8000	118.8
AEC/RACES (Tactical)	Log-Service	146.5500	146.5500	None
AEC/RACES EOC-EOC	Log-Service	224.0400	229.0400	118.8
AEC/RACES – D3	Log-Service	224.8200	229.8200	118.8
NB/Digital				
Packet (Digital Messaging)	Log-Service	145.0100	145.0100	None
Packet (Digital Messaging)	Log-Service	145.6300	145.6300	None

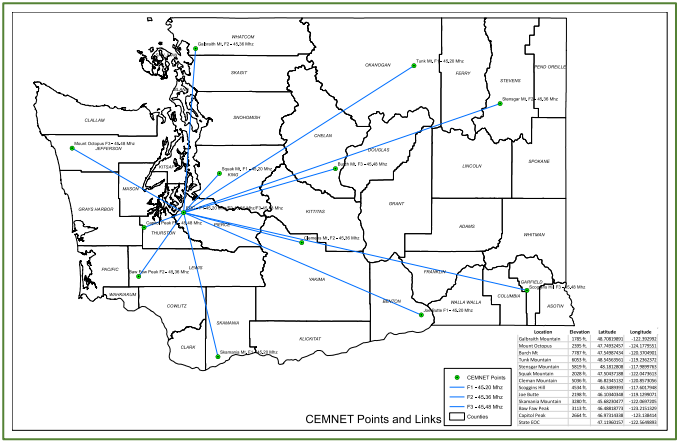
Callsigns: Ham Call SB EOC: WA7PC / Ham Call LB AEOC: W7RDR

REGION 3 MAPS

OSCCR Towers in Region 3

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

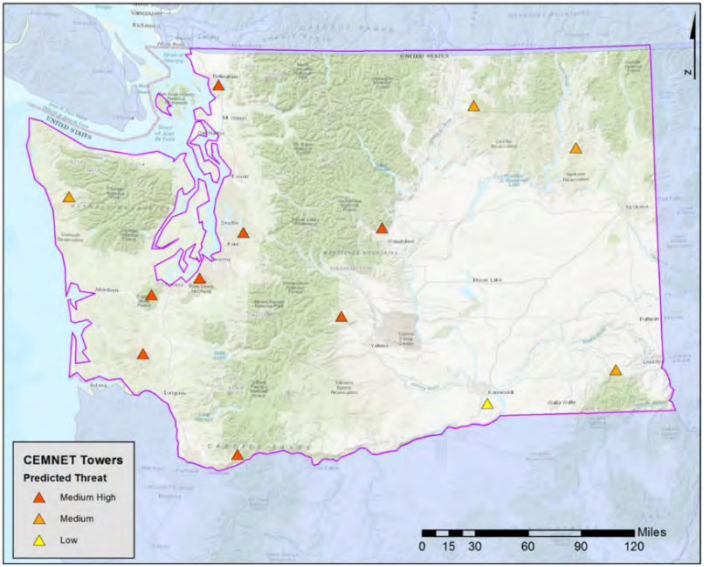
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.7083891	-122.302902
Mount Octopus	2385 ft.	47.7495267	-124.1779151
Bunch Mt.	7787 ft.	47.5498743	-120.3704931
Tunk Mountain	8055 ft.	48.5490992	-119.2962372
Stonegar Mountain	5629 ft.	46.1812808	-117.9899765
Sprak Mountain	2628 ft.	47.3068718	-122.0479615
Clemans Mountain	5036 ft.	46.8234152	-120.8579396
Scoggins Hill	4546 ft.	46.5489898	-117.4657486
Jim Butte	2196 ft.	46.1046568	-119.1298171
Stanavana Mountain	3280 ft.	45.8609877	-122.0697205
Raw Paw Peak	3113 ft.	46.4681877	-121.2151205
Capitol Peak	2644 ft.	46.9719148	-123.138566
State EOC		47.1196217	-122.9496861

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

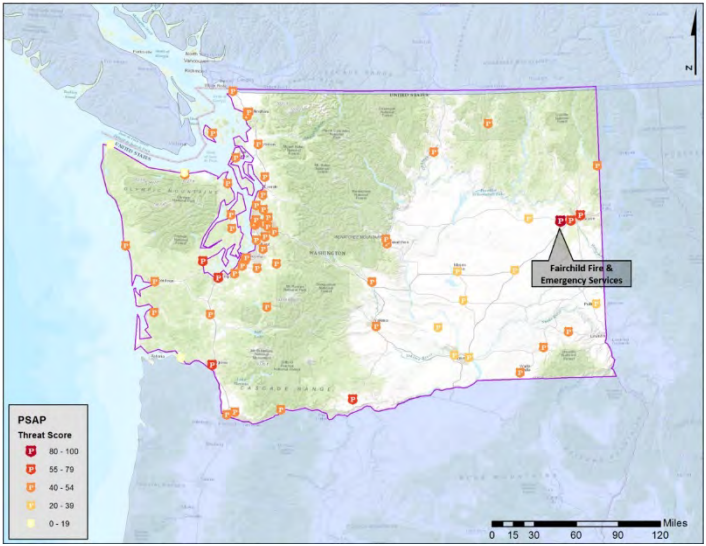
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

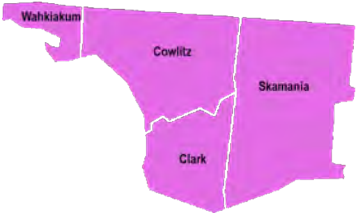
Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

REGION 4



Counties	Tribes within Counties	Cities within Counties
Clark	NA	NA
Cowlitz	NA	NA
Skamania	NA	NA
Wahkiakum	NA	NA

Region 4 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Vancouver)	WSP	VHF/700 MHz P25 Phase II	360-449-7950
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	360-905-2269
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv./700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
Clark Co. 800 MHz Radio System	Clark Co.	800 MHz Trunked	
North Clark Co. VHF Radio System	North Clark Co.	VHF	

Other Shared System Notes:

DNR Pacific Cascade Region / 360-577-2025
601 Bond Road, Castle Rock, WA 98611
Dispatch Center Pacific Cascade Region Headquarters
Dispatch Phone 360-274-2089

DNR Pacific Cascade Region

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Abernathy	151.4750	173.8	159.1950	162.2	Abernathy Mtn	46-20-33.7 123-05-58.2
Baw Faw	159.3825	136.5	151.4000	136.5	Boistfort Peak	46-29-17.4 122-12-55.5
Burley	159.2175	173.8	151.1450	173.8	Burley Mtn	46-24-25.8 121-51-54.3
Capitol	159.2250	136.5	151.4300	173.8	Capitol Pk	45-38-54.4 121-43-21.3
Defiance	159.4500	136.5	151.3250	136.5	Mt Defiance, OR	46-33-42.4 122-20-25.4
Hopkins	159.1875	136.5	151.1675	136.5	Hopkins Hill	46-01-14.0 122-46-44.4
Kalama	159.2475	136.5	151.1975	136.5	Green Mtn	45-43-01.4 122-17-44.3
Larch	159.4275	136.5	151.3850	136.5	Larch Mtn	46-01-19.4 122-11-06.3
Mitchell	159.2025	136.5	151.2125	136.5	Mt Mitchell	46-25-19.4 123-47-52.6
Naselle	159.1275	186.2	151.3775	186.2	Naselle Ridge	46-05-29.4 123-27-34.5
Nicolai	159.3300	136.5	151.2500	136.5	Mt Nicolai, OR	46-17-08.4 122-33-06.4
Signal Peak	159.3000	162.2	151.2350	136.5	Signal Peak	46-20-33.7 123-05-58.2
State Adams	159.420	D155	151.295	D155	Lookout Mtn	

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
State Clark	159.3375	D156	151.2725	D156	Larch Mtn	45-43-0 1.4 122-17-44.3
State Cowlitz	159.4200	D031	151.2950	D031	Signal Peak	45-43-01.4 122-17-44.3
State Gorge	159.4200	D632	151.2950	D632	Mt Defiance, OR	45-38-54.4 121-43-21.3
State Pacific	159.4200	D464	151.2950	D464	Naselle Ridge	46-25-19.4 123-47-52.6
State Packwood	159.4200	D732	151.2950	D732	Burley Mtn	46-24-25.8 121-51-54.3
State Rimrock	159.4200	D734	151.2950	D734	White Pass	46-37-26.0 121-23-16.0
State St. Helens	159.4200	D703	151.2950	D703	Signal Peak	46-17-08.4 122-33-06.4
State Westport	159.4200	D251	151.2950	D251	Scar Hill	46-51-26.0 123-41-42.0

GATEWAYS

Fixed Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

Transportable/Mobile Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
Clark Co. Sheriff's Office (CCSO) Search and Rescue	564-397-2211	VHF Custom Built/On Vehicle	Waterproof Case

REPEATER CHANNELS

Name	Primary Use	Frequency		Tone Rx/Tx
		Rx	Tx	
Cowlitz Repeater Information				
	North County	147.2600	147.8600	114.8
	South County	147.3000	147.9000	114.8
	Longview	444.9000	449.9000	114.8
	Rainer, OR	224.6600	223.0600	114.8
	Primary Simplex	144.4400		
Skamania Repeater Information				
	Augspurger Mountain	440.3250	445.325	100
	Augspurger Mountain DMR	440.6375	445.6375	CC1
	Underwood Mountain	147.2000	147.800	100
	Red Mountain	145.2500	144.500	186.2
Wahkiakum Repeater Information				
	Cathlamet	444.3000	449.3000	118.8
	Nicolai Mountain	444.5000	449.5000	118.8
	KM Mountain, West County	147.0200	147.6200	118.8
	Primary Simplex	145.5500		

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
No Data	xxx-xxx-xxxx		

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
Clark Co. Sheriff SAR Trailer (MCU)	Clark Co. SO	564-397-2211
Clark Co. Tactical Dispatch Unit (TDU) (MCU)	Clark Co. SO	564-397-6079

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

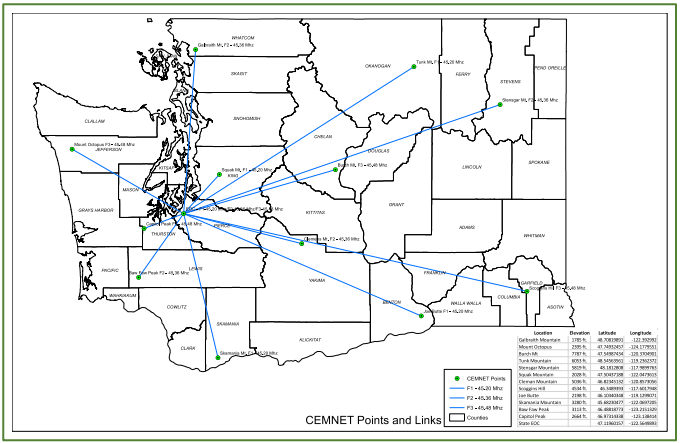
Agency	24 Hr. #
No Data	xxx-xxx-xxxx

REGION 4 MAPS

OSCCR Towers in Region 4

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

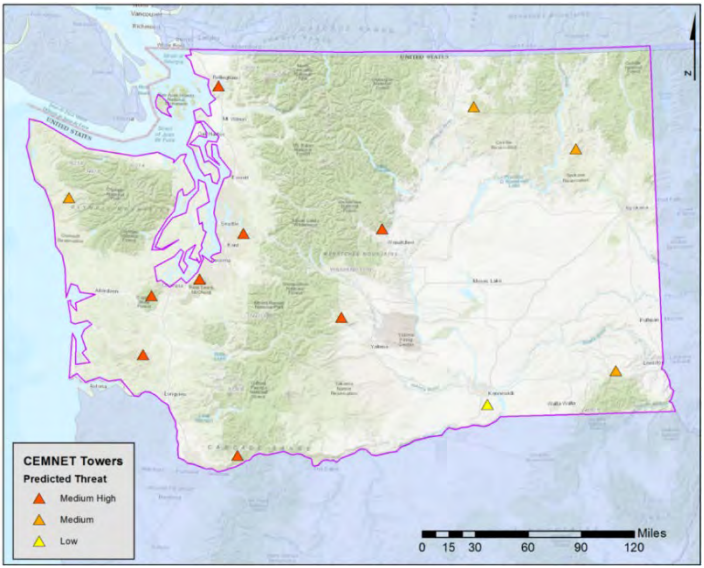
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.708289[illegible]	-122.302992
Mount Octopus	2395 ft.	47.749124[illegible]	-124.173[illegible]
Bunch Mt	2781 ft.	48.[illegible]4542	-118.[illegible]031
Tunk Mountain	4353 ft.	48.[illegible]2951	-119.[illegible]231
Stemgen Mountain	3655 ft.	48.[illegible]808	-117.[illegible]763
Squak Mountain	2028 ft.	47.[illegible]188	-122.[illegible]915
Tiger Mountain	3036 ft.	47.[illegible]152	-122.[illegible]956
Snoqualmie Hill	4548 ft.	46.[illegible]693	-117.[illegible]760
Iron Butte	2198 ft.	46.[illegible]368	-119.[illegible]731
Stemwinder Mountain	3280 ft.	46.[illegible]477	-122.[illegible]285
Blue Paw Peak	3113 ft.	46.[illegible]773	-121.[illegible]105
Capitol Peak	3644 ft.	46.[illegible]168	-123.[illegible]854
State EOC		47.[illegible]217	-122.[illegible]893

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

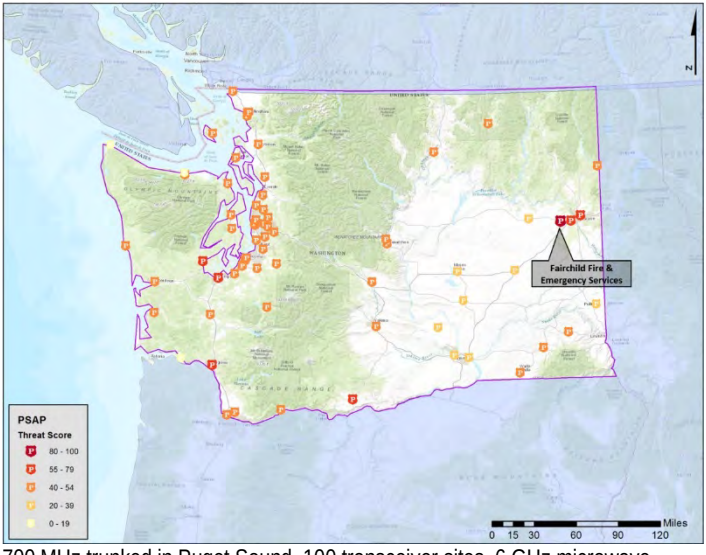
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

REGION 5

Counties	Tribes within Counties	Cities within Counties
Pierce	Puyallup Tribe	Fife, Lakewood, Puyallup, Sumner, and Tacoma

Region 5 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	EMD	VHF HB	253-512-7176
CENMET	EMD	VHF LB	253-512-7176
SECURE	EMD	HF	253-512-7176
WSP Radio (Tacoma)	WSP	VHF/700 MHz P25 Phase II	253-538-3100
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio	WSP	VHF/700 MHz	360-596-4000
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB/ 800 MHz to 700 MHz P25 Phase II	235-538-3300
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv./700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
IWIN	USDOJ	MXTS-5000 /XTS-4000 VHF	425-418-3069
Capitol Complex Radio (STAEN)	DES	800 MHz	

System Name	Agency	Freq	24 Hr. #
Seattle UASI/King Co. Radio	King Co. Radio Board	800 MHz	206-997-3100
Tacoma Regional Network (TRN)	City of Tacoma	800 MHz	253-591-5131
SERS	Snohomish Co. 911	800 MHz	425-359-1926
Port of Seattle	Port of Seattle	800 MHz	206-610-0391
Pierce Co.	Pierce Co.	VHF Conv. 700 MHz Trunked	253-798-7011
Olympic Public Safety COMMS Network (OPSCAN)	Clallam Co./Pencom Co. Dispatch	UHF PD/VHF Fire	
King CO. Mutual Aid Radio System (KC MARS)		VHF/UHF	
RACES		HF-UHF	
Single County Wide Communications System (SCWCS)	Pierce County DEM	VHF & 700MHz	253-798-7470

Other Shared System Notes

For Seattle King UASI Shared System: This radio system is operated and managed by: King County Radio Communications Board.

The regional system consists of several subsystems (called sub-regions) joined together by electronic switching equipment. Each sub-region owns and manages their portion of the system. Sub-regions include: The City of Seattle, Valley Communications Center, Eastside Public Safety Communications Agency (EPSCA), and King County.

Agency	Intercom Call Sign (Fixed Gateway Control Point)	24 Hr. # (On-Duty Supervisor)
Primary COMM Center: Valley Communications Center	Valley Communications	253-372-1490
King Co. Sheriff's Office (SO) Communications Center	King Co. Sheriff	206-205-4088 (direct) 206-296-3311 (Comm. Center)
Seattle PD	Seattle Police	206-684-8640
Seattle FD	Seattle Fire	206-386-1498
NORCOM Communications Center	NORCOM	425-425-5600
Redmond PD	NORCOM Coordinates	425-885-1333
Bothell Communications Center (PD not FD)	NORCOM Coordinates	425-486-1254
Enumclaw Communications Center	Valley Comm Coordinates	360-825-3505
Issaquah PD	NORCOM Coordinates	425-837-3200
University of WA	Seattle 911 Coordinates	206-543-9331

Seattle King UASI Talkgroups

Talk Group	Primary Use	Description	Other Talk Groups
KC10	Fire/LE Interop	Interop Comms in King Co. – North of I-90	Snohomish Law, POS PD, all Tacoma Regional Network agencies
KC10	Fire/LE Interop	Interop Comms in King Co. – South of I-90	Snohomish Law, POS PD, all

Talk Group	Primary Use	Description	Other Talk Groups
			Tacoma Regional Network agencies
LOCGOV N	Local Government	All King Co. Government users North of I-90	Hospitals, POS PD, all Tacoma Regional Network agencies
LOCGOV S	Local Government	All King Co. Government users South of I-90	POS PD, all Tacoma Regional Network agencies
ALLGOV	All Government	All Government users throughout King Co.	Snohomish Co. Hospitals, POS PD, all Tacoma Regional Network agencies
IMS-N/IMS-S/ IMS-ALL	Incident Management	IC North of I-90 / IC South of I-90 / IC throughout King County	All Tacoma Regional Network agencies
MARS	LE Emergency	LE interoperable communications in King Co.	POS PD, all Tacoma Regional Network agencies
KC10	Fire Interop	Interop between FDs in Zone 1 / Interop between FDs in Zone 3 / Interop for Seattle FDs	All Tacoma Regional Network agencies

Talk Group	Primary Use	Description	Other Talk Groups
MAPOOL-1/2	Fire Interop	Fire Interop in King Co.	All Tacoma Regional Network agencies, Snohomish Co. Fire
MED-1	Medical Coordination	Interop between Hospitals and EMS / Interop between Airlift Northwest, Hospitals and EMS	Snohomish Co. Hospitals / Airlift Northwest

Tacoma Regional Network (TRN) 800 MHz Trunked Participants

Agency	Intercom Call Sign (Fixed Gateway Control Point)	24 Hr. # (On-Duty Supervisor)
Primary COMM Center: Tacoma FD	Fire Dispatch	253-591-5733
City of Tacoma	Tacoma	253-591-5131 800help@cityoftacoma.org
LESA Tacoma	LESA	253-798-4063
Puyallup City Comm	City Comm	253-841-5431
Lakewood Fire Comm	Fire Comm	253-588-5217
Fife Communications	LESA Coordinates	Main Dispatch 253-922-6633 X1

Port of Seattle 800 MHz Talkgroups

Talk Group	Primary Use	Description	Other Talk Groups
POSP MA	LE		Port of Seattle inter-agency communications
MA POSFD	Fire		

GATEWAYS

Fixed Gateways

Gateway Name/ Type	24 Hr. #	Agency
No Data	xxx-xxx-xxxx	

Transportable/Mobile Gateways

Gateway Name/Type	24 Hr. #	Agency
IWN/ACU-1000	206-622-0460	FBI Radio Shop Seattle
DEA/IWN/ACU-1000	206-553-5512	DEA Seattle
King Co./ACU-1000	206-296-3311	King Co. SO Dispatch
Tacoma Regional Network/ TRP-1000		
Port of Seattle/TRP-1000	206-947-7734	Port of Seattle
Snohomish Co./ACU-1000		Snohomish Co.
Pierce Co. Gateway/ACU-1000/Mounted on MOCC1	253-798-7470	Pierce Co. DEM
Fife PD/TRP-1000		
City of Redmond Mobile Command Post/ACU-1000	425-885-1333	Redmond Police Dispatch Center
Seattle PD/InfiniMode G4	206-684-8640	Seattle PD Communications

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
Port of Seattle	xxx-xxx-xxxx	800 MHz	
DOT			

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
Tumwater / DNR	360-902-1186	Bendix King	VHF
Port of Seattle	206-947-7734	MTS-2000	800 MHz
IWN / FBI	425-418-3069	XTS-5000/XTS-4000	VHF
Seattle Fire 800 MHz		XTS-5000/APX-6000	800 MHz
Seattle Fire UHF		XTS-5000/APX-6000	UHF
Seattle Fire VHF		XTS-5000/APX-6000	VHF
Tacoma Fire 1	253-591-5733	XTS-5000	800 MHz
Tacoma Fire 2	253-591-5694	XTS-5000	800 MHz
Pierce Co./Seattle FD	253-798-7011	Kenwood TK-290 Kenwood TK-390	VHF UHF
Pierce County APX 1-4 (10 Each)	253-798-7011	Motorola APX 7000	VHF/700/ 800MHz
Pierce County VHF 1-3 (20 Each)	253-798-7011	Kenwood TK-290	VHF

Other Cache Radio Notes

Port of Seattle (POS)

POS PD RADIO CACHE							
	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F	Zone G
Ch							
1	POSPD PRI	LERN	DIR POSPD	PT FIRE1	PSOPS-S1	MAZONE-1	ICALL
2	PD ADMIN	PSOPS-S1	RP BKUPPD	PT FIRE2	PSOPS-S2	MAZONE-3	ITAC-1
3	PD TAC1	PSOPS-S2	STATEOP 2	PT FIRE3	PSOPS-N1	MAZONE-5	ITAC-2
4	PD TAC2	LOCGOV S	STATEOP 3	PT FIRE4	PSOPS-N2	MAPOOL-1	ITAC-3
5	PD TAC3	ALLGOV	STATEOP 5	MA POSFD	PSOPS-S3	MAPOOL-2	ITAC-4
6	PD TAC4	PSOPS-N1	ICALL	EMER POS	PSOPS-S4	MA SNO 1	STATEOP 1
7	POSP MA	PSOPS-N2	ITAC-1		EMER REV T	MA SNO 2	STATEOP 2
8	0AA	LOCGOV N	ITAC-2		PSOPS-N3	MA PC1	STATEOP 3
9	EMER CMD	ALLGOV	ITAC-3		PSOPS-N4	MA PC2	STATEOP 4
10	DIR POS PD	APD TAC	ITAC-4		POSP MA	MA POSFD	STATEOP 5
11	RP BKUP PD	RPD TAC	RP ICALL		MARS 800	EMER-Z1	PSOPS-S1
12	PT FIRE1	TPD TAC	RP ITAC-1		LOCGOV S	EMER-Z3	PSOPS-N1
13	OPS FIELD	SPECOP S1	RP ITAC-2		LOCGOV N	EMER-Z5	MAZONE-1
14	MNT ADMIN	SPECOP S2	RP ITAC-3		ALLGOV	EMER SPMV	MAZONE-3

POS PD RADIO CACHE							
	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F	Zone G
Ch							
15	ACCESS 1	SPECOP S3	RP ITAC-4		IMS-S	EMER-SFC	MAZONE-5
16	MARS 800	SPECOP S4	BLANK		IMS-N	EMER PC	IMS-ALL

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
Pierce Co. Mobile Operations Command Center (MOCC1)	Pierce Co. DEM	253-798-7011

Note: This MCU is applicable to Region 6 as well / Deployment Area: Tri-County Area (Pierce, King, Snohomish) JBLM & WSP / Stored at: 2501 South 35th Street East, Tacoma WA 98409

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location		Qty	KVA	24 Hr. #	Make/Model
No Data				xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUECIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				
Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.				

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
SECURE	Day-5.192 MHz	5.1920	5.1920	
SECURE	Night-2.411 MHz	2.4110	2.4110	
SECURE	Day Interstate-7.805 MHz	7.8050	7.8050	
SECURE	Night Interstate-2.326 MHz	2.3260	2.3260	

Note: SECURE serves as a "secondary" limited back-up communications system for direction and control use within the state, as needed. It also serves as a capability to communicate with FEMA Region X, Idaho, and Oregon.

SECURE is an HF radio system employing two stations located in the state Emergency Operations Center (EOC), the Spokane EOC, and a mobile station operated by the Military Department.

Frequencies authorized by FCC and FEMA for use on the system are:

Primary (Day): 5.192 MHz / Primary (Night): 2.411 MHz / Primary (Day - Interstate): 7.805 MHz / Primary (Night - Interstate): 2.326 MHz

Other assigned frequencies:

2.801 MHz / 2.414 MHz / 2.587 MHz / 7.935 MHz

Frequencies are operated upper sideband (USB).

A local jurisdiction EOC will operate on this system when the need is identified, and the capability is provided by the state EMD Telecommunications and Warning Program Manager.

DNR Pacific Cascade Region

360-577-2025 / 601 Bond Road, Castle Rock, WA 98611
Dispatch Center Pacific Cascade Region Headquarters
Dispatch Phone: 360-274-2089 / Call Sign “CASCADE”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Abernathy	151.4750	173.8	159.1950	162.2	Abernathy Mtn	46-20-33.7 123-05-58.2
Baw Faw	159.3825	136.5	151.4000	136.5	Boistfort Peak	46-29-17.4 122-12-55.5
Burley	159.2175	173.8	151.1450	173.8	Burley Mtn	46-24-25.8 121-51-54.3
Capitol	159.2250	136.5	151.4300	173.8	Capitol Pk	45-38-54.4 121-43-21.3
Defiance	159.4500	136.5	151.3250	136.5	Mt Defiance, OR	46-33-42.4 122-20-25.4
Hopkins	159.1875	136.5	151.1675	136.5	Hopkins Hill	46-01-14.0 122-46-44.4
Kalama	159.2475	136.5	151.1975	136.5	Green Mtn	45-43-01.4 122-17-44.3
Larch	159.4275	136.5	151.3850	136.5	Larch Mtn	46-01-19.4 122-11-06.3
Mitchell	159.2025	136.5	151.2125	136.5	Mt Mitchell	46-25-19.4 123-47-52.6
Naselle	159.1275	186.2	151.3775	186.2	Naselle Ridge	46-05-29.4 123-27-34.5
Nicolai	159.3300	136.5	151.2500	136.5	Mt Nicolai, OR	46-17-08.4 122-33-06.4
Signal Peak	159.3000	162.2	151.2350	136.5	Signal Peak	46-20-33.7 123-05-58.2

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
State Clark	159.3375	D156	151.2725	D156	Larch Mtn	45-43-0 1.4 122-17-44.3
State Cowlitz	159.4200	D031	151.2950	D031	Green Mtn	45-43-01.4 122-17-44.3
State Gorge	159.4200	D632	151.2950	D632	Mt Defiance, OR	45-38-54.4 121-43-21.3
State Pacific	159.4200	D464	151.2950	D464	Naselle Rdg	46-25-19.4 123-47-52.6
State Packwood	159.4200	D732	151.2950	D732	Burley Mtn	46-24-25.8 121-51-54.3
State Rimrock	159.4200	D734	151.2950	D734	White Pass	46-37-26.0 121-23-16.0
State St. Helens	159.4200	D031703	151.2950	D031703	Signal Peak	46-17-08.4 122-33-06.4
State Westport	159.4200	D251	151.2950	D251	Scar Hill	46-51-26.0 123-41-42.0

DNR South Puget Sound Region

360-825-1631 / 950 Farman Ave. N., Enumclaw, WA 98022
Dispatch Center South Puget Sound Region Headquarters
Dispatch Phone: 360-802-7080 / Call Sign “SOUTH PUGET”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Belfair	159.2550	114.8	151.2050	114.8	Gold Mtn	47-32-54.3 122-47-11.5
Capitol	159.2250	136.8	151.4300	173.8	Capitol Peak	46-58-27.0 123-08-21.5
Carbon	159.3600	D072	151.3700	D065	Cowling Ridge	47-00-38.0 122-06-19.0
Eatonville	159.3075	114.8	151.2275	114.8	Puyallup Ridge	46-50-02.9 122-01-01.7
Enumclaw	159.4575	141.3	151.2575	141.3	Grass Mtn	47-12-14.4 121-47-44.4
North Bend	159.2925	114.8	151.3925	114.8	Rattlesnake Mtn	47-27-29.4 121-48-22.4

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Shelton	159.3150	127.3	151.1750	127.3	North Mtn	47-18-45.3 123-22-19.6
State Issaquah	159.4200	D532	151.2950	D532	Rattlesnake Mtn	47-27-29.4 121-48-22.4
State Kitsap	159.4200	D315	151.2950	D315	Gold Mtn	47-32-54.3 122-47-11.5
State Rainier	159.4200	D743	151.2950	D743	Puyallup Ridge	46-50-02.9 122-01-01.7
State Thurston	159.2850	D244	151.2725	D244	Capitol Peak	46-58-27.0 123-08-21.5

REGION 1 VHF CHANNELS

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
PCF MUTAID	Fire Agencies	154.160 (S)	154.160 (S)	CSQ/131.8
410 MUTAID	Fire Agencies	155.640	159.165	179.9
410 FIRE	Fire Agencies	150.790 (S)	150.790 (S)	131.8
MAC	General Public Safety	151.355	156.060	167.9

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

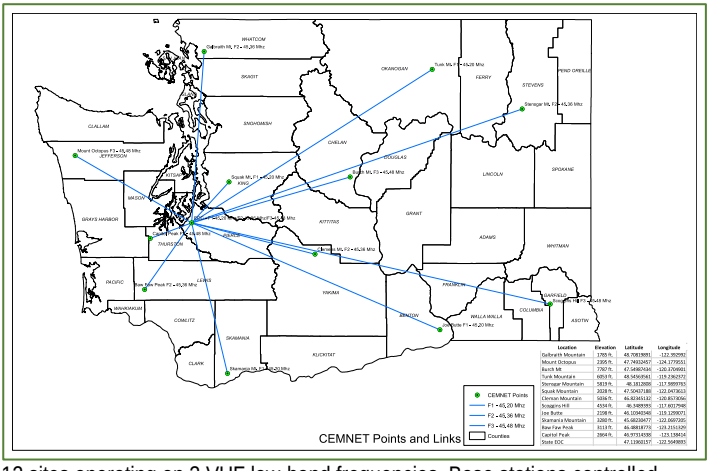
Agency	24 Hr. #
No Data	xxx-xxx-xxxx

REGION 5 MAPS

OSCCR Towers in Washington

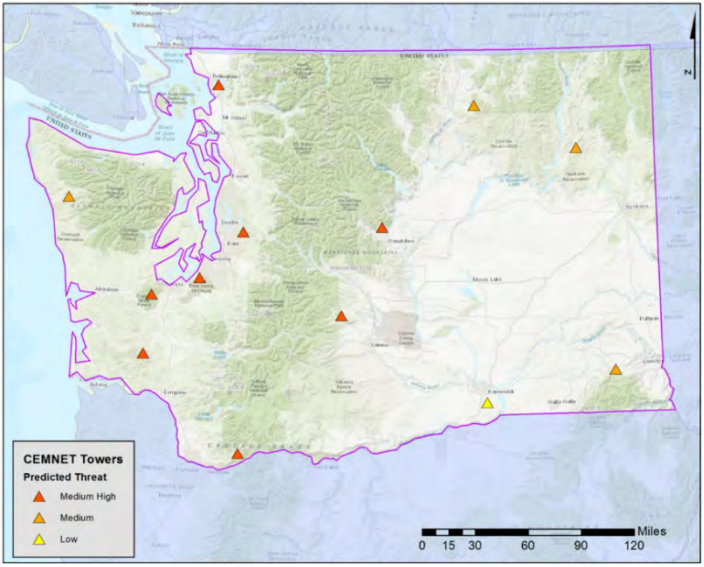
OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

Washington State CEMNET



12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.

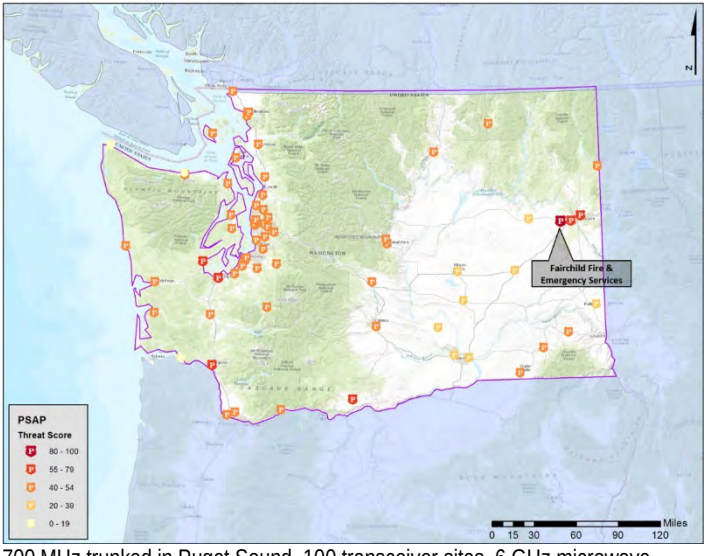
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

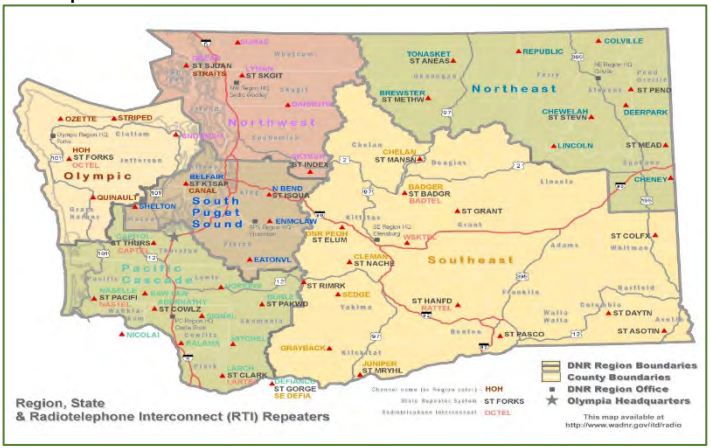
Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

DNR Repeater Sites



DNR SIMPLEX FREQUENCIES

Name	User RX	Tone	User TX	Tone	Notes
DNR Common	151.4150	103.5	151.4150	103.5	
DNR Air to Ground	159.2700	103.5	159.2700	103.5	1
DNR TAC 1	151.3100	103.5	151.3100	103.5	
DNR TAC 2	151.3400	103.5	151.3400	103.5	
DNR TAC 3	159.2925	103.5	159.2925	103.5	2
DNR TAC 4	159.2775	103.5	159.2775	103.5	3
DNR TAC 5	151.3475	103.5	151.3475	103.5	4
DNR TAC 6	159.3675	103.5	159.3675	103.5	2

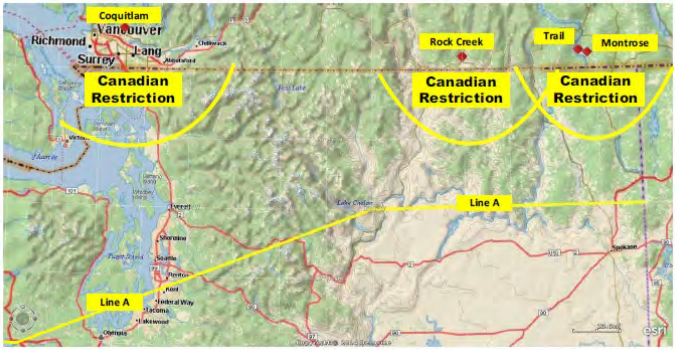
DNR Portable Repeaters

Name	RX	RX Tone	TX	RX Tone	Notes
DNR Portable Repeater 1	159.4125	103.5	151.2875	103.5	1, 2
DNR Portable Repeater 2	159.3075	103.5	151.4225	103.5	1, 4
DNR Portable Repeater 3	159.3300	103.5	151.3850	103.5	1, 3, 4
DNR Portable Repeater 4	159.3750	103.5	151.3700	103.5	3, 4
DNR Portable Repeater 5	159.2400	103.5	151.2650	103.5	3, 4
DNR Portable Repeater 6	159.3600	103.5	151.4750	103.5	1, 3, 4

Name	RX	RX Tone	TX	TX Tone	Notes
OSCCR	156.1350	None	156.1350	203.5	
LERN	155.3700	None	155.3700	100	
NLEC	155.4750	None	155.4750	None	
REDNET	153.8300	None	153.8300	None	
DNR COMMON	151.4150	103.5	151.4150	103.5	
HEAR	155.3400	None	155.3400	None	
SAR 1	155.1600	None	155.1600	None	
VCALL 10*^	155.7525	None	155.7525	156.7	
VTAC 11*	151.1375	None	151.1375	156.7	
VTAC 12*^	154.4225	None	154.4225	156.7	
VTAC 13*^	158.7375	None	158.7375	156.7	
VTAC 14*^	159.4725	None	159.4725	156.7	

*Narrowband analog channel 12.5 KHz.
^In most cases, these frequencies are restricted near the Canadian border.

Department of Fish & Wildlife (DFW)



DFW Tactical Channels: Fish & Wildlife has included the following channels in the Radio Sharing Agreement. DNR use is secondary; these are to be used as a last resort. As noted, there are Canadian restrictions.

Name	User RX	Tone	User TX	Tone	Notes
DFW TAC 6	153.9350	186.2	153.9350	186.2	1
DFW TAC 7	151.4975	186.2	151.4975	186.2	2
DFW TAC 18	151.4900	186.2	151.4900	186.2	3
DFW TAC Repeater 6	151.4900	186.2	153.9350	186.2	1, 3
DFW TAC Repeater 7	153.9350	186.2	151.4900	186.2	1, 3

Note: 153.9350 MHz — Cannot be used within 80 KM of Rock Creek B.C., Canada (49.0321N – 118.5951W); 50 KM of Coquitlam, B.C. Canada (49.1500N – 122.4812W) or Trail, B.C., Canada. ERP < 25W. (See Map) / 151.4975 MHz — Below Line A and Whatcom, Skagit, Snohomish, King, Kitsap, Clallam, Jefferson, Mason, Island and Grays Harbor Counties. 3. 153.9350 MHz — Note Canadian Operation at Montrose, BC.

REGION 6

Counties	Tribes within Counties	Cities within Counties
King	Muckleshoot Tribe and Snoqualmie Tribe	Algona, Auburn, Beaux Arts Village, Bellevue, Black Diamond, Bothell, Burien, Carnation, Clyde Hill, Covington, Des Moines, Duvall, Enumclaw, Federal Way, Hunts Point, Issaquah, Kenmore, Kent, Kirkland, Lake Forest Park, Maple Valley, Medina, Mercer Island, Milton, Newcastle, Normandy Park, North Bend, Pacific, Redmond, Renton, Sammamish, SeaTac, Seattle, Shoreline, Skykomish, Snoqualmie, Tukwila, Woodinville, and Yarrow Point

Region 6 POC Information

Agency:	
Name:	Chief Lombard
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Bellevue)	WSP	VHF/700 MHz P25 Phase II	425-401-7798
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	206-440-4490
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/Conv/ 700 MHz/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio (STAEN)	DES		
IWIN	FBI	VHF	425-487-4621
Seattle UASI/King Co. Radio	King Co. Radio Board	800 MHz	206-997-3100
Tacoma Regional Network (TRN)	City of Tacoma	800 MHz	253-591-5131
SERS	Snohomish Co. 911	800 MHz	425-359-1926
Port of Seattle	Port of Seattle	800 MHz	206-610-0391
Pierce Co.	Pierce Co.	VHF Conv 700 MHz Trunked	253-798-7011

System Name	Agency	Freq	24 Hr. #
King Co. Mutual Aid Radio System (KC MARS)		VHF/UHF	206-997-3100
RACES		HF-UHF	

GATEWAYS

Fixed Gateways

Name/Gateway Type	24 Hr. #	Location/Agency
Central Puget Sound area (King, Pierce, Snohomish, Kitsap, Kittitas, WSP, IWIN, Port of Seattle, etc.) employs what they refer to as the TRIS interconnects – a system that allows for the native radio systems of each of the listed entities to be patched.	xxx-xxx-xxxx	Contacts include any of the PSAPs for the listed entities.

Transportable/Mobile Gateways

Name/Gateway Type	Location/Agency	24 Hr. #
IWN – FBI/ACU-1000		206-423-5920
IWN – DEA/ACU-1000		206-553-5512
King County/ACU-1000		206-296-3311
Tacoma Regional Network/TRP-1000		253-798-6595
Port of Seattle/TRP-1000		206-947-7734
Snohomish County/ACU-1000		
Pierce County/ACU-1000		253-798-6595
Fife PD/TRP-1000		253-798-6595

City of Redmond Mobile Command Post (MCU)/ACU-1000		425-885-1333
Seattle PD/InfiniMode G4		206-684-8640

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
Seattle Fire Department	206-386-1498	Multiple	VHF, UHF, 800 MHz

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
Port of Seattle	206-947-7734	MTS-2000	800 MHz
Seattle Fire 800 MHz	206-386-1498	XTS-5000/ APX-6000	800 MHz
Seattle Fire UHF	206-386-1498	XTS-5000/ APX-6000	UHF
Seattle Fire VHF	206-386-1498	XTS-5000/ APX-6000	VHF
Tacoma Fire 1/Tacoma FD	253-591-5733	XTS-5000	800 MHz
Tacoma Fire 2/Tacoma PD	253-591-5694	XTS-5000	800 MHz
Pierce Co./Seattle FD	253-798-6595	Kenwood TK-290 Kenwood TK-390 APX-7000	VHF UHF 7/8/VHF
Kitsap County DEM	360-535-9987	Kenwood 5210	VHF

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
RAADAR/NORCOM	425-577-5690	Web Based	Call Display Information for Most King County Agencies

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency	24 Hr. #
Pierce Co. Mobile Operations Command Center (MOCC1)	Pierce Co. DEM	253-798-7011
Port of Seattle MCU	Port of Seattle	206-947-7734
Port of Seattle MICV	Port of Seattle	206-787-5045
Redmond Police MCP	Redmond Police	425-556-2500
Bellevue Mobile Command	Bellevue Police	425-577-5600

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM)

AuxComm Frequencies

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				
Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.				

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
KC IO 02 – 16	800 MHz Interop	Trunked Talkgroup		
LERN	Statewide LE Mutual AID	155.3700		100.0

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
MARS VHF (has 800 MHz permanent patch)	Law Enforcement Emergency	154.650	155.190	100.0/100/0
MARS UHF (has 800 MHz permanent patch)	Law Enforcement Emergency	465.550	460.550	103.5/103.5
REDNET	Statewide Fireground Interop	153.830		
MED-1	UHF Medical Coordination	468.000	463.000	179.9/179/9
STATEOPS1	State	852.5375	807.5375	156.7
STATEOPS2	Statewide Operations – Repeated	852.5625	807.5625	156.7
STATEOPS3	Statewide Operations – Repeated	852.5875	807.5875	156.7
STATEOPS4	Statewide Operations – Repeated	852.6125	807.6125	156.7
STATEOPS5	Statewide Operations – Repeated	852.6375	807.6375	156.7
STATEOPS1D	Statewide Operations – Direct or Simplex	852.5375		156.7
STATEOPS2D	Statewide Operations – Direct or Simplex	852.5625		156.7
STATEOPS3D	Statewide Operations – Direct or Simplex	852.5875		156.7
STATEOPS4D	Statewide Operations – Direct or Simplex	852.6125		156.7

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
FBI Communication Center	Seattle	206-262-2566
Valley Communications Center	Kent	253-372-1490
KCSO Communications Center	Renton	206-296-3311
Seattle Police Department	Seattle	206-684-8640
Seattle Fire Department	Seattle	206-386-1498
NORCOM	Bellevue	425-577-5580
Redmond Police Department	Redmond	425-885-1333
Bothell Police Communications Center	Bothell	425-486-1254
Enumclaw Police Communications Center	Enumclaw	360-825-3505
Issaquah Police Department	Issaquah	425-837-3200
University of WA Police	Seattle	206-543-9331

NON-GOVERNMENT CONTACT INFORMATION

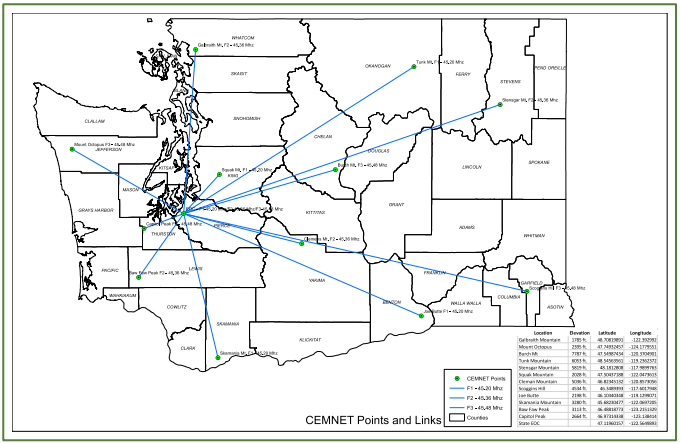
Agency	24 Hr. #
We have Rail, Hospitals, ARES, Transportation, Utilities, Private Ambulance, Airlift NW, and Education contacts in this section. ADD All of these if you like to have in the FOG	xxx-xxx-xxxx

REGION 6 MAPS

OSCCR Towers in Region 6

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

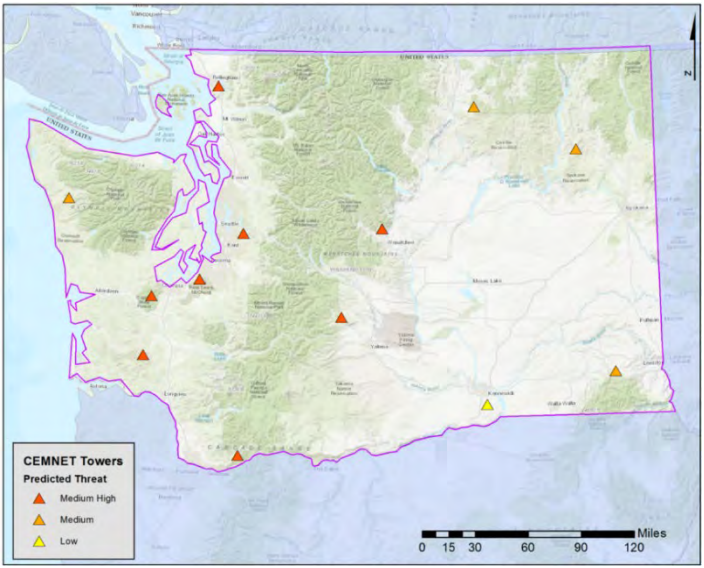
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	3785 ft.	48.708289Ø	-122.302992
Mount Octopus	7395 ft.	47.749124Ø	-124.173711
Beech Mt.	3785 ft.	46.349807Ø	-118.192801
Tunk Mountain	6913 ft.	48.5496Ø9Ø	-119.4962Ø1
Stemgan Mountain	5659 ft.	48.1312808	-117.9999763
Squak Mountain	2028 ft.	47.5081108	-122.0479615
Tiemen Mountain	5036 ft.	46.8196152	-118.0578596
Snagpine Hill	4548 ft.	46.1889892	-117.4817988
Jim Butte	2198 ft.	46.1068368	-119.1298271
Stemania Mountain	6385 ft.	45.6620427	-121.0647285
Baw Paw Peak	3113 ft.	46.4881877Ø	-123.2311Ø9
Capitol Peak	3644 ft.	46.8731638	-123.138141
State EOC		47.1196Ø217	-122.5698Ø81

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

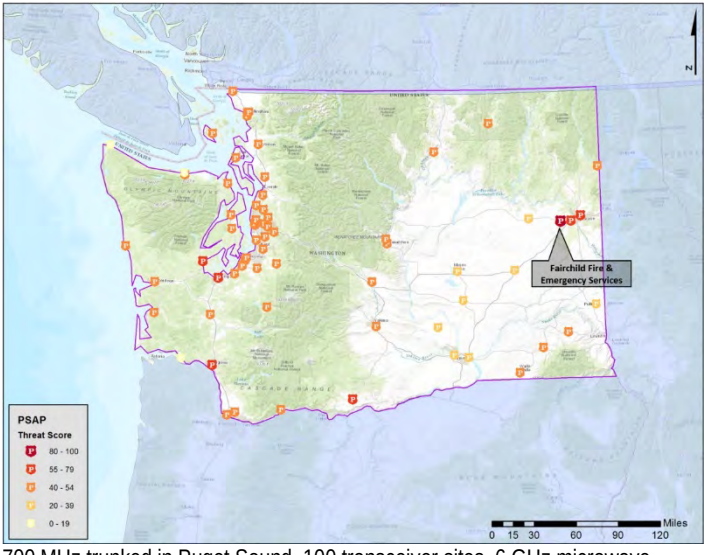
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

REGION 7

Counties	Tribes within Counties	Cities within Counties
Chelan	NA	NA
Douglas	NA	NA
Grant	NA	NA
Kittitas	NA	NA
Okanogan	NA	Confederated Colville Tribes

Region 7 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Wenatchee)	WSP	VHF/700 MHz P25 Phase II	509-682-8099
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	509-667-2802
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv./700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
Benton Co. Emergency Services	Benton Co. Emergency Services	P25 800 MHz	
KITTCOM	KITTCOM (Kittitas Co. 911 and Dispatch)	VHF	
KITTCOM Countywide VHF			

System Name	Agency	Freq	24 Hr. #
Multi-Agency Communications Center (MACC) VHF			
Okanogan Co. SO			

GATEWAYS

Fixed Gateways

Gateway Type	Location/Agency	24 Hr. #
BCES ACU2000	Benton Co. Emergency Services	
WA State DOC Gateway	Washington State DOC	
WA State EMD Gateway	WA State Emergency Management Division (EMD)	
WSP RoIP Gateway 1	WSP	P. Dunn/WSP notes he is not familiar with these resources
WSP RoIP Gateway 2	WSP	
WSP RoIP Gateway 3	WSP	
WSP RoIP Gateway 4	WSP	

Transportable/Mobile Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

REPEATERS

Fixed Repeaters)

Name/Agency	24 Hr. #	Make/Model	Type

No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
Command Rptr/Okanogan Co. SO	xxx-xxx-xxxx	VHF HB (150-174MHz)/ Daniels	

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
Chelan Co. SO Radio Cache	xxx-xxx-xxxx	King DPH	VHF HB (150-174MHz)
Grant Co. Fire District 5 Radio Cache		Bendix King/Tait TP 9155	VHF HB (150-174MHz)
Grant Co. SO		Tait TP9155 (15)/ HT 1000 HT1250/ XTS2500/XTS3000/ Kenwood 5120	VHF HB (150-174MHz)
Kittitas Co. SO Radio Cache		Bendix King (11)/ MT1000 (8)/ Kenwood 2170 (8)	VHF HB (150-174MHz)
Okanogan Co. SO Office Radio Cache		HT1250 (12)/ Kenwood TK250 (6) and TK280 (12)	VHF HB (150-174MHz)

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency	24 Hr. #
Chelan Co. Comms Van	Chelan Co. SO	xxx-xxx-xxxx
Douglas Co. SO Special Ops Center	Douglas Co. SO	
Grant Co. Fire District 5 Fire Command Bus	Grant Co. Fire District 5	
Grant Co. SO Comms Van	Grant Co. SO	
Kittitas Co. SO SAR Van	Kittitas Co. SO	
Okanogan Co. SO MCU	Okanogan Co. SO	

Generators

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

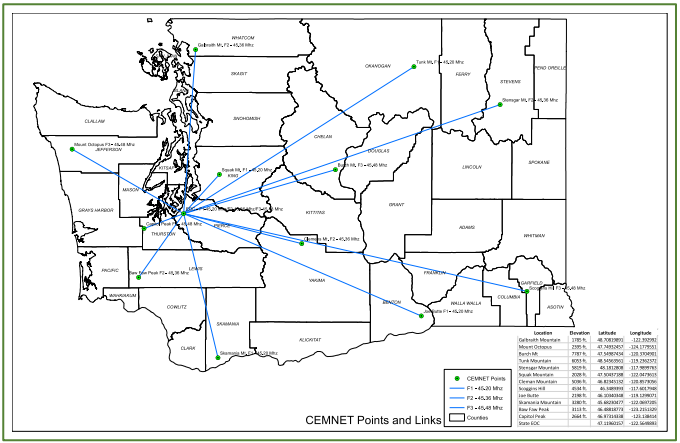
Agency	24 Hr. #
No Data	

REGION 7 MAPS

OSCCR Towers in Region 7

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

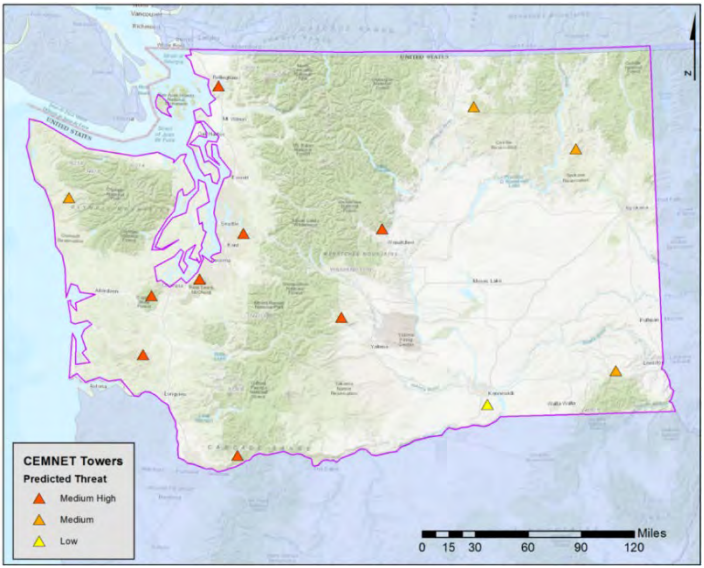
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.708289[illegible]	-122.302992
Mount Octopus	2395 ft.	47.749124[illegible]	-124.173[illegible]
Bunch Mt.	2785 ft.	47.[illegible]4542	-118.[illegible]
Tunk Mountain	4353 ft.	48.[illegible]2[illegible]	-117.[illegible]
Stemgan Mountain	3655 ft.	48.[illegible]808	-117.[illegible]
Squak Mountain	2028 ft.	47.[illegible]188	-122.[illegible]
Tiemen Mountain	3036 ft.	46.[illegible]152	-118.[illegible]
Snagpine Hill	4548 ft.	46.[illegible]93	-117.[illegible]
Jim Butte	2198 ft.	46.[illegible]368	-119.[illegible]
Stemania Mountain	3280 ft.	46.[illegible]477	-122.[illegible]
Raw Paw Peak	3113 ft.	46.[illegible]773	-121.[illegible]
Capitol Peak	3644 ft.	46.[illegible]168	-123.[illegible]
State EOC		47.[illegible]217	-122.[illegible]

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

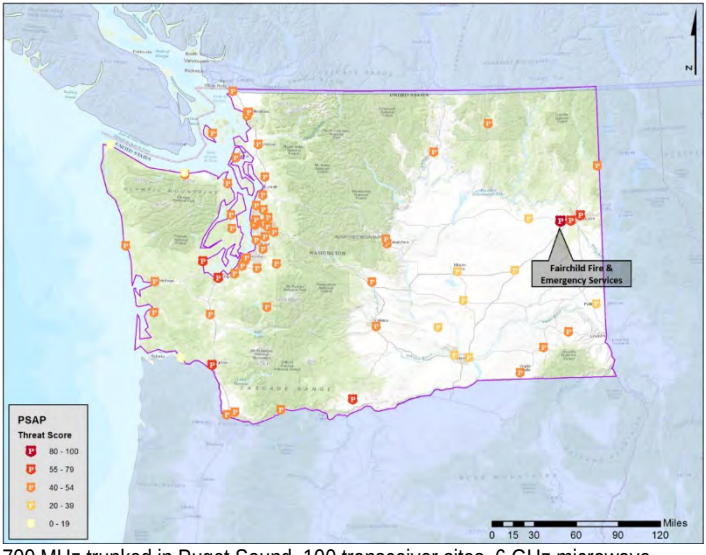
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

REGION 8

Counties	Tribes within Counties	Cities within Counties
Benton	NA	NA
Franklin	NA	NA
Klickitat	NA	NA
Walla Walla	NA	NA
Yakima	Yakama Nation	Yakima

Region 8 POC Information

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio (Yakima)	WSP	VHF/700 MHz P25 Phase II	509-249-6700
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	509-577-1910
DNR Radio	DNR	VHF HB	360-902-1480
WILDCOMM	DFW	VHF HB/ UHF Trunked/ and Conv./700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)
DOC Radio	DOC	800 MHz	360-725-8888
WA State DES Capitol Complex Radio	DES		
IWIN	FBI	800 MHz SmartZone V4.1	425-487-4621
Benton Co. ES	Benton Co. ES	P25 800MHz	
WESCOM	Walla Walla ES Communications	VHF with UHF Radio Links	
City of Yakima Fire Districts	SunComm (City of Yakima and Yakima Co. Fire Districts)	VHF HB	

System Name	Agency	Freq	24 Hr. #
City of Yakima PD	SunComm (City of Yakima and Yakima Co. Fire Districts)		
Yakima Co. Upper Valley Fire Districts	SunComm (City of Yakima and Yakima Co. Fire Districts)	VHF HB[7]	
BCES P25 800MHz Digital Trunked			
DNR VHF			
Fire 2 PFD			

GATEWAYS

Fixed Gateways

Gateway Type	24 Hr. #	Location/Agency
ICRI / ICRI 2TG / Mobile	509-527-1960	Walla Walla PD

Transportable/Mobile Gateways

Gateway Type	24 Hr. #	Location/Agency
ICRI / 2TG / Nets: 5 Sim / 5 Ports	509- 527-1960	Walla Walla PD

REPEATERS

Fixed Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

[7] YSO uses NEXTEDGE modulation in VHF

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

RADIO CACHE

Name/Agency	24 Hr. #	Make/Model	Freq
No Data	xxx-xxx-xxxx		

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
No Data		xxx-xxx-xxxx

Generators

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM)

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				
Note: Operations on Amateur Radio Frequencies requires an appropriately licensed Amateur Radio Operator. Refer to FCC Rules, Part 97, or, The American Radio Relay League for more detailed information.				

INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

LOCAL DISPATCH CENTERS

Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

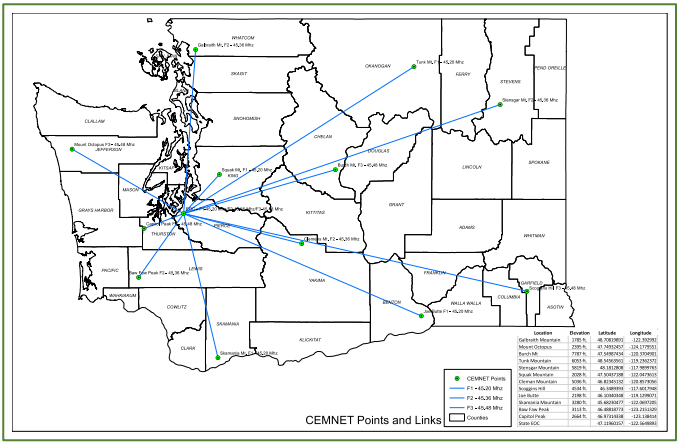
Agency	24 Hr. #
No Data	xxx-xxx-xxxx

REGION 8 MAPS

OSCCR Towers in Region 8

OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

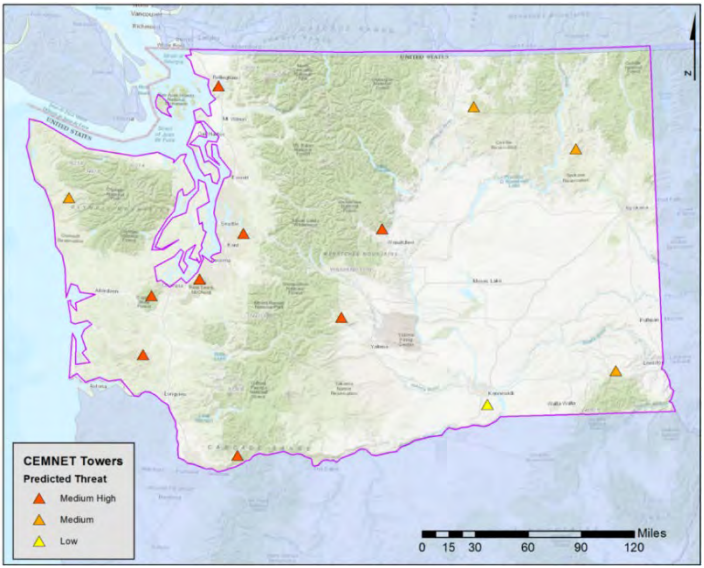
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.708289[illegible]	-122.302992
Mount Octopus	2395 ft.	47.749124[illegible]	-124.173[illegible]
Bunch Mt	2781 ft.	48.[illegible]4542	-118.[illegible]031
Tunk Mountain	4353 ft.	48.[illegible]2951	-119.[illegible]231
Stemgan Mountain	3655 ft.	48.[illegible]8808	-117.[illegible]763
Squak Mountain	2028 ft.	47.[illegible]1108	-122.[illegible]9115
Tiger Mountain	3036 ft.	47.[illegible]1152	-122.[illegible]9256
Snoqualmie Hill	4548 ft.	46.[illegible]8892	-117.[illegible]7680
Iron Butte	2198 ft.	46.[illegible]3368	-119.[illegible]2731
Wenatchee Mountain	6380 ft.	46.[illegible]6427	-121.[illegible]7285
Blue Paw Peak	3113 ft.	46.[illegible]8773	-121.[illegible]2110
Capitol Peak	3644 ft.	46.[illegible]7[illegible]6	-120.[illegible]8[illegible]4
State EOC		47.[illegible]2217	-122.[illegible]6[illegible]3

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

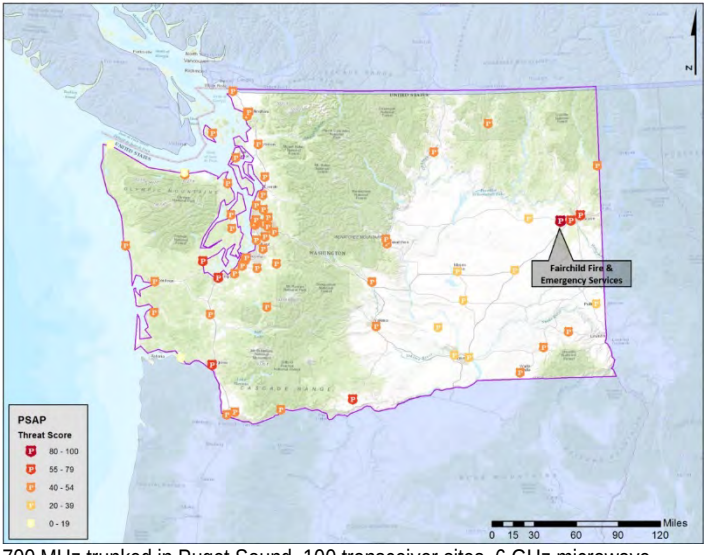
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

REGION 9

Counties	Tribes within Counties	Cities within Counties
Adams, Asotin, Columbia, Garfield, Lincoln, Whitman	NA	NA
Ferry	Colville Confederated Tribe	NA
Pend Oreille	Kalispel Tribe	NA
Spokane and Stevens	Spokane Tribe	NA

POC INFORMATION

Agency:	
Name:	
Title:	
Address:	
Office Phone:	
24/7 Phone:	
E-Mail:	

SHARED SYSTEMS

System Name	Agency	Freq	24 Hr. #
OSCCR	EMD	VHF HB	253-512-7176
CENMET	EMD	VHF LB	253-512-7176
SECURE	EMD	HF	253-512-7176
WSP Radio (Spokane)	WSP	VHF/700 MHz P25 Phase II	509-227-6650
OSCCR	WA State EMA	VHF HB	253-512-7176
CEMNET	WA State EMA	VHF LB	253-512-7176
SECURE	WA State EMA	HF	253-512-7176
WSP Radio	WSP	VHF/700 MHz	360-596-4000
WSDOT Radio ITS & Wireless Technology	WSDOT	VHF HB 800 MHz to 700 MHz P25 Phase II	509-343-6402
DNR Radio	DNR	VHF HB	360-902-1480
Spokane Valley Fire		VHF HB	
Department of Enterprise Services Capitol Complex Radio	DES		
WILDCOMM	DFW	VHF HB/UHF Trunked/ and Conv./700 MHz Trunked/800 MHz Trunked	360-902-2928 (0700-1700 daily)

Other Shared System Notes

DNR Northeast Region
09-684-7474 / 225 S Silke Road Colville, WA
Dispatch Center Northeast Interagency / Communications Center
Dispatch Phone 509-685-6900
Call Sign “Northeast Dispatch”

Ch Name	RX	RX Tone	TX	TX Tone	Site	Lat / Long
Brewster	159.4350	123.0	151.2425	123.0	Goat Mtn	48-00-53.0 119-59-07.0
Cheney	159.3675	156.7	151.4675	156.7	Mica Peak	47-34-30.6 117-04-54.7
Chewelah	159.4500	156.7	151.4600	156.7	Stranger Mtn	48-10-52.6 117-59-23.9
Colville	159.4350	156.7	151.1600	156.7	Flagstaff Mtn	48-54-30.7 117-52-07.0
Deer Park	159.4050	156.7	151.2500	156.7	Chewelah Peak	48-17-0 3.6 117-34-19.8
Lincoln	159.2400	156.7	151.2650	156.7	Rienbold Ranch	47-50-15.4 118-17-30.5
Okanogan	159.3150	156.7	151.3025	118.8	Little Buck Mtn	48-23-15.0 119-55-42.6
Republic	159.3600	118.8	151.2350	118.8	Bodie Mtn	48-49-29.6 118-50-04.1
Tonasket	159.3675	118.8	151.2575	156.7	Aeneas Mtn	48-44-34.5 119-37-19.3
State Aeneas	159.4200	D261	151.2950	D261	Aeneas Mtn	48-44-34.5 119-37-19.3
State Mead	159.4200	D664	151.2950	D664	Mt Spokane	47-55-03.6 117-07-21.7
State Methow	159.4200	D172	151.2950	D172	Little Buck Mtn	48-23-15.0 119-55-42.6
State Pateros	159.4200	D125	151.2950	D125	Goat Mtn	48-00-53.0 119-59-07.0
State Pend Oreille	159.4200	D754	151.2950	D754	Calispell Pk	48-26-12.7 170-30-08.9
State Stevens	159.4200	D047	151.2950	D047	Stranger Mtn	48-10-52.6 117-59-23.9

GATEWAYS

Fixed Gateways

Gateway Type	Location/Agency	24 Hr. #
Spokane Valley FD	Spokane Valley FD	xxx-xxx-xxxx

Transportable/Mobile Gateways

Gateway Type	24 Hr. #	Location/Agency
No Data	xxx-xxx-xxxx	

REPEATERS

Fixed Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

Transportable/Mobile Repeaters

Name/Agency	24 Hr. #	Make/Model	Type
No Data	xxx-xxx-xxxx		

RADIO CACHE

Location/Agency	24 Hr. #	Make/Model	Freq
Spokane County – DEM (Dept of Emergency Management)	509-532-8900	Bendix King	UHF
Spokane County Regional Emergency Communications (Spokane Valley FD)	509-532-8900	Bendix King	UHF

DATA COMMUNICATIONS

Network Name/Location/Agency	24 Hr. #	Type [Ran or Lan]/Freq
No Data	xxx-xxx-xxxx	

Devices/Sensors

Device Type/Location	24 Hr. #	Qty	Description
End-User Handheld	xxx-xxx-xxxx		
Remote Sensor			
IP Camera			
Environmental Sensor			

Applications

Application Location	24 Hr. #	Apple/Android	Type [Purpose]
No Data	xxx-xxx-xxxx		

MOBILE COMMUNICATIONS UNITS (MCU)

Unit ID/Designator	Agency/Location	24 Hr. #
No Data		xxx-xxx-xxxx

GENERATORS

(May insert Map of Generator Locations if Applicable)

Location	Qty	KVA	24 Hr. #	Make/Model
No Data			xxx-xxx-xxxx	

AUXILIARY COMMUNICATIONS (AUXCOMM) FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
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INTEROPERABLE AND MUTUAL AID FREQUENCIES

Name	Primary Use	Frequency		Tone
		Rx	Tx	Rx/Tx
No Data				

LOCAL DISPATCH CENTERS

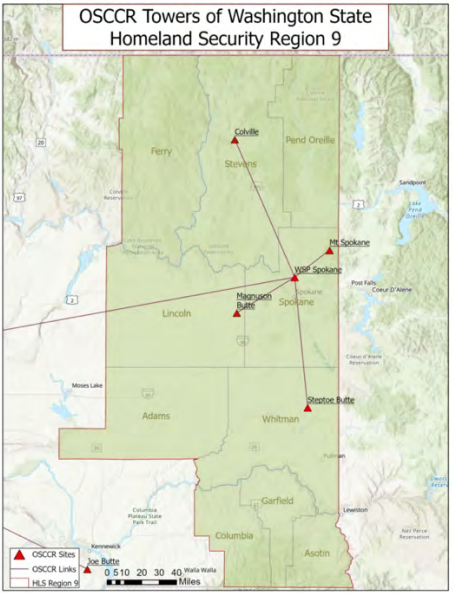
Dispatch Center	Location	24 Hr. #
No Data		xxx-xxx-xxxx

NON-GOVERNMENT CONTACT INFORMATION

Agency	24 Hr. #
No Data	xxx-xxx-xxxx

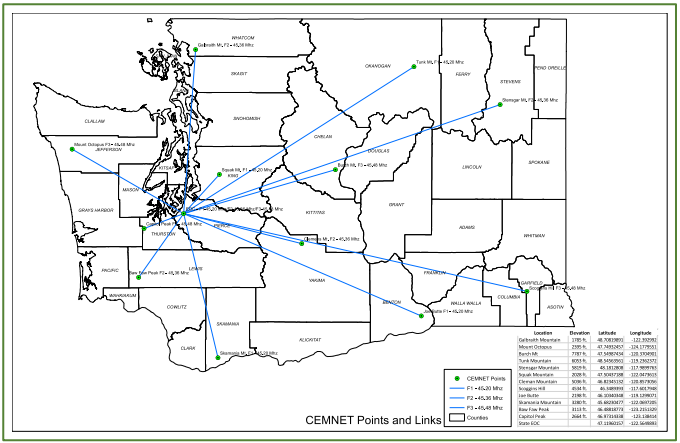
REGION 9 MAPS

OSCCR Towers in Region 9



OSCCR: Primarily used by public-safety agencies, "on-scene" at an event/incident, for command and coordination of activities between agencies. OSCCR can only be employed in the simplex mode via mobile and/or handheld equipment. For further information and/or obtain authorization for its use contact the EMD Telecommunications Section at: 253.512.7036 https://mil.wa.gov/other-radio-systems.

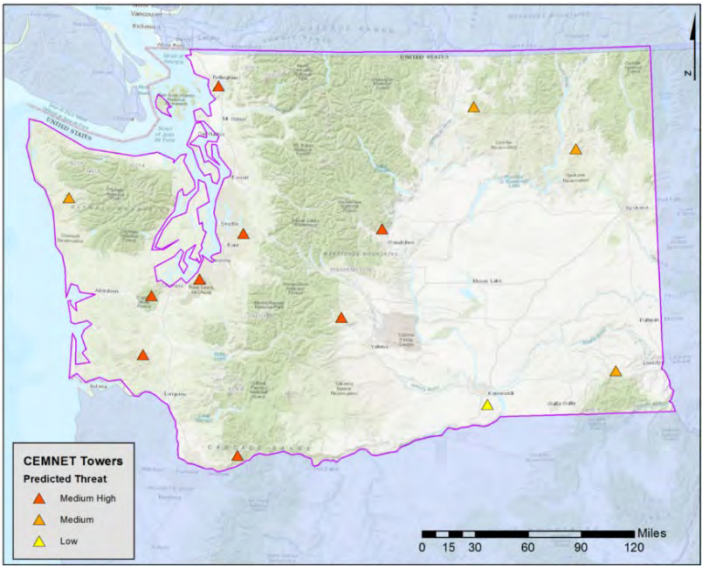
Washington State CEMNET



Location	Elevation	Latitude	Longitude
Galbraith Mountain	2785 ft.	48.708289Ø	-122.302992
Mount Octopus	2395 ft.	47.749124Ø	-124.173741
Beech Mt	2781 ft.	47.349807Ø	-118.190301
Tunk Mountain	4353 ft.	48.549670Ø	-119.496233
Stemgan Mountain	3659 ft.	48.181280Ø	-117.999793
Squak Mountain	2028 ft.	47.508372Ø	-122.067915
Tiemen Mountain	3036 ft.	46.819835Ø	-118.857856
Snagpine Hill	4548 ft.	46.188999Ø	-117.601766
Jim Butte	2198 ft.	46.103833Ø	-119.1998731
Skamania Mountain	3280 ft.	45.662583Ø	-122.064728Ø
Bow Tow Peak	3113 ft.	46.498183Ø	-121.2311Ø9
Capitol Peak	3644 ft.	46.871616Ø	-123.138141
State EOC		47.119621Ø	-122.5498Ø1

12 sites operating on 3 VHF low-band frequencies, Base stations controlled from State EOC through WSP microwave system, and Primary backup communication link.

CEMNET Towers in Washington



NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Island Co.	Clark Co.	Adams Co.	Ferry Co.	Asotin Co.
Jefferson Co.	Cowlitz Co.	Benton Co.	Lincoln Co.	Columbia Co.
Kitsap Co.	Grays Harbor Co.	Chelan Co.	Okanogan Co.	Garfield Co.
San Juan Co.	King Co.	Douglas Co.	Pend Oreille Co.	Whitman Co.
Skagit Co.	Lewis Co.	Franklin Co.	Spokane Co.	

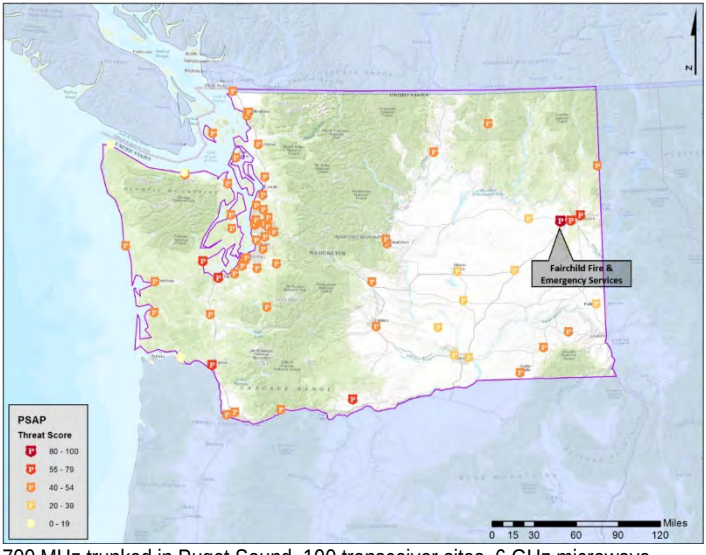
NORTHWEST (F1-45.20 MHz)	SOUTHWEST (F2-45.36 MHz)	CENTRAL (F3-45.48 MHz)	NORTHEAST (F1-45.20 MHz)	SOUTHEAST (F2-45.36 MHz)
Snohomish Co.	Mason Co.	Grant Co.	Stevens Co.	
Whatcom Co.	Pacific Co.	Kittitas Co.		
Clallam Co.	Pierce Co.	Klickitat Co.		
	Skamania Co.	Yakima Co.		
	Thurston Co.	Walla Walla Co.		
	Wahkiakum Co.			

ESCA	Lacey
Auburn	Puyallup
Bellevue	Shelton
Kent	Tacoma
Mercer Island	Kirkland
Port Angeles	
Redmond	
Seattle	
Snoqualmie	

CEMNET REGION AND CHANNEL ASSIGNMENTS

Local jurisdictions listed above are authorized to use the assigned region channel for local operations. Each local license holder is authorized to operate up to five (5) mobiles.

PSAPs and WSP Communications Centers



700 MHz trunked in Puget Sound, 100 transceiver sites, 6 GHz microwave system for backhaul, voice and data, 8 dispatch centers, and 3,800 subscriber units.

NATIONAL INTEROPERABILITY CHANNELS

Recommended programming, shared channel/frequency information, radio caches, gateways, and MCUs are listed in this section.

All transmit and receive frequencies are listed as they would be programmed into portable radios, mobile or control point radios. Programming of repeaters MUST reverse the “receive” and “transmit” frequencies and tones shown in the table below.

CTCSS Tones – Default operation should be carrier squelch receive (CSQ), CTCSS Transmit. If the user can enable/disable without programming the radio, the indicated CTCSS tone also could be programmed for receive, and the user instructed how and when to enable/disable. In some regions of the state, a PL code is used on both Rx and Tx. If you are not sure, leave Rx as CSQ.

Many channels are also setup for repeater operation. Each of those channels have a corresponding direct channel which is the same as the repeater output. Therefore, if you hear a mention of 8TAC91D, it is the same output frequency of 8TAC91. Since the output frequency is the same, the channels with the "D" suffix will not be listed separately.

VTAC17 is the same as Marine Channel 25 and may only be used in areas at least 100 miles from a navigable waterway and by ground stations only.

Non-Federal VHF Low Band National Interoperability Channels

Description	Ch Name	RX	TX	RX/TX Tone
Law Enforcement	LLAW1	39.4600	45.8600	156.7 (5A)
Law Enforcement	LLAW1D	39.4600	39.4600	156.7 (5A)
Fire (Proposed)	LFIRE2	39.4800	45.8800	156.7 (5A)
Fire (Proposed)	LFIRE2D	39.4800	39.4800	156.7 (5A)
Law Enforcement	LLAW3	45.8600	39.4600	156.7 (5A)
Law Enforcement	LLAW3D	45.8600	45.8600	156.7 (5A)
Fire (Proposed)	LFIRE4	45.8800	39.4800	156.7 (5A)
Fire	LFIRE4D	45.8800	45.8800	156.7 (5A)
Frequency 39.4800 MHz is pending FCC assignment for exclusive fire intersystem use. These channels are WIDEBAND FM, 20 kHz authorized bandwidth.				

Non-Federal VHF High Band National Interoperability Channels

Description	Ch Name	RX	RX Tone	TX	TX Tone
Calling	VCALL10	155.7525	156.7 (5A)	155.7525	156.7 (5A)
Tactical	VTAC11 *	151.1375	156.7 (5A)	151.1375	156.7 (5A)
Tactical	VTAC12 *	154.4525	156.7 (5A)	154.4525	156.7 (5A)
Tactical	VTAC13	158.7375	156.7 (5A)	158.7375	156.7 (5A)
Tactical	VTAC14	159.4725	156.7 (5A)	159.4725	156.7 (5A)
Tac Rpt	VTAC33 * •	159.4725	156.7 (5A)	151.1375	136.5 (4Z)
Tac Rpt	VTAC34 * •	158.7375	156.7 (5A)	154.4525	136.5 (4Z)
Tac Rpt	VTAC35 •	159.4725	156.7 (5A)	158.7375	136.5 (4Z)
Tac Rpt	VTAC36 * •	151.1375	156.7 (5A)	159.4725	136.5 (4Z)
Tac Rpt	VTAC37 * •	154.4525	156.7 (5A)	158.7375	136.5 (4Z)
Tac Rpt	VTAC38 •	158.7375	156.7 (5A)	159.4725	136.5 (4Z)

*VTAC11-12, VTAC33-34, and VTAC36-37 may not be used in Puerto Rico or the USVI.

• VTAC33-38 recommended for deployable tactical repeater use only (FCC Station Class FB2T).

• VTAC36-38 are preferred; VTAC33-35 should be used only when necessary due to interference. These channels are NARROWBAND only.

Non-Federal VHF Inland National Interoperability Channels

Ch Name	Description	RX	TX
VTAC17	Tactical – narrowband FM	161.8500	157.2500
VTAC17D	Tactical – narrowband FM	161.8500	161.8500
CTCSS 156.7 Hz(5A) transmit and receive. For VTAC17/VTAC17D only: Base stations: 50 watts max, antenna HAAT 400 feet max. Mobile stations: 20 watts max, antenna HAAT 15 feet max. These channels are for tactical use and may not be operated on board aircraft in flight. These channels use narrowband FM and are available only in certain inland areas at least 100 miles from a major waterway. These channels use the same frequencies as VHF Marine channel 25, which uses wideband FM. Use only where authorized. These channels are NARROWBAND only. Use of these channels must be licensed, or authorized by STA.			

VHF Public Safety Mutual and Common Interoperability Channels

WARNING: These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required. Availability subject to other licensed users in the same area.

Frequency base/mobile	**Usage**	**Ch Name**	**Note**
155.1600	Search and Rescue (SAR) Common (CTCSS 127.3 TX & RX)	VSAR16 a.k.a. SAR NFM & SAR160	Not restricted to SAR by FCC; availability varies.
154.2800	Fire Mutual Aid (MA)	VFIRE21	Not available in Puerto Rico and the U.S. Virgin Islands.
154.2650		VFIRE22	
154.2950		VFIRE23	
154.2725		VFIRE24	
154.2875		VFIRE25	
154.3025		VFIRE26	
155.3400	EMS Mutual Aid	VMED28	May be designated for EMS MA
155.3475		VMED29	
155.4750	LE Mutual Aid	VLAW31	
155.4825		VLAW32	

LICENSING REQUIRED - These are NOT nationwide interoperability channels - CTCSS tones vary by jurisdiction. Rules for use of these channels are contained in 47 CFR 90.20 and NTIA Manual Section 4.3.11 & 7.3.6. EXCEPT for VSAR16, the recommended CTCSS tones are 156.7 receive and transmit for all channels on this page for interoperability; local use may specify other tones.

VHF Incident Response (IR) Federal Interoperability Channels

Suggested Assignment (subject to availability & local plans)	Ch Name	Note	RX	TX
Incident Calling	NC 1	Calling	169.5375	164.7125
Incident Command	IR 1		170.0125	165.2500
Medical Evacuation Control	IR 2		170.4125	165.9625
Logistics Control	IR 3		170.6875	166.5750
Interagency Convoy	IR 4		173.0375	167.3250
Incident Calling (Direct)	IR 5	Direct for NC 1 Calling	169.5375	169.5375 (S)
Incident Command (Direct)	IR 6	Direct for IR 1	170.0125	170.0125 (S)
Medical Evacuation Control (Direct)	IR 7	Direct for IR 2	170.4125	170.4125 (S)
Logistics Control (Direct)	IR 8	Direct for IR 3	170.6875	170.6875 (S)
Interagency Convoy (Direct)	IR 9	Direct for IR 4	173.0375	173.0375 (S)
Default operation should be carrier squelch receive; CTCSS 167.9 transmit. If the user can enable/disable CTCSS. Without reprogramming the radio, the indicated CTCSS tone also could be programmed for receive, and the user instructed how and when to enable/disable. These channels are NARROWBAND only.				

VHF Law Enforcement (LE) Federal Interoperability Channels

Description	Ch Name	Note	RX	TX	RX/TX Tone
Calling	LE A	Analog	167.0875	167.0875 (S)	167.9 / CSQ
Tactical	LE 1	Analog	167.0875	162.0875	167.9 / CSQ
Tactical	LE 2		167.2500	162.2625	$68F (167910)
Tactical	LE 3		167.7500	162.8375	$68F (167910)
Tactical	LE 4		168.1125	163.2875	$68F (167910)
Tactical	LE 5		168.4625	163.4250	$68F (167910)
Tactical	LE 6	Direct for LE 2	167.2500	167.2500 (S)	$68F (167910)
Tactical	LE 7	Direct for LE 3	167.7500	167.7500 (S)	$68F (167910)
Tactical	LE 8	Direct for LE 4	168.1125	168.1125 (S)	$68F (167910)
Tactical	LE 9	Direct for LE 5	168.4625	168.4625 (S)	$68F (167910)
CTCSS on receive only if user selectable; else CSQ. These channels are NARROWBAND only.					

UHF Incident Response (IR) Federal Interoperability Channels

Suggested Assignment (subject to availability & local plans)	Ch Name	Note	RX	TX
Incident Calling	NC 2	Calling	410.2375	419.2375
Ad hoc assignment	IR 10		410.4375	419.4375
Ad hoc assignment	IR 11		410.6375	419.6375
SAR Incident Command	IR 12		410.8375	419.8375
Ad hoc assignment	IR 13		413.1875	413.1875 (S)
Interagency Convoy	IR 14		413.2125	413.2125 (S)
Incident Calling (Direct)	IR 15	Direct for NC 2 Calling	410.2375	410.2375 (S)
Ad hoc assignment (Direct)	IR 16	Direct for IR 10	410.4375	410.4375 (S)
Ad hoc assignment (Direct)	IR 17	Direct for IR 11	410.6375	410.6375 (S)
SAR Incident Command (Direct)	IR 18	Direct for IR 12	410.8375	410.8375 (S)
Default operation should be carrier squelch receive; CTCSS 167.9 transmit. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone also could be programmed for receive, and the user instructed how and when to enable/disable.				

UHF Law Enforcement (LE) Federal Interoperability Channels

Description	Ch Name	Note	RX	TX	RX /TX Tone
Calling	LE B	Analog	414.0375	414.0375(S)	167.9
Tactical	LE 10	Analog	409.9875	418.9875	167.9
Tactical	LE 11		410.1875	419.1875	$68F (167910)
Tactical	LE 12		410.6125	419.6125	$68F (167910)
Tactical	LE 13		414.0625	414.0625(S)	$68F (167910)
Tactical	LE 14		414.3125	414.3125(S)	$68F (167910)
Tactical	LE 15		414.3375	414.3375(S)	$68F (167910)
Tactical	LE 16	Direct for LE 10 Analog	409.9875	409.9875(S)	167.9
Tactical	LE 17	Direct for LE 11	410.1875	410.1875(S)	$68F (167910)
Tactical	LE 18	Direct for LE 12	410.6125	410.6125(S)	$68F (167910)
CTCSS on receive only if user selectable; else CSQ. These channels are NARROWBAND only.					

Non-Federal UHF National Interoperability Repeater Channels

Description	Channel Name	Mobile RX (MHz)	Mobile TX (MHz)
Calling	UCALL40	453.2125	458.2125
Calling	UCALL40D	453.2125	453.2125
Tactical	UTAC41	453.4625	458.4625
Tactical	UTAC41D	453.4625	453.4625
Tactical	UTAC42	453.7125	458.7125
Tactical	UTAC42D	453.7125	453.7125
Tactical	UTAC43	453.8625	458.8625
Tactical	UTAC43D	453.8625	453.8625
CTCSS 156.7 Hz (5A) transmit and receive. All channels on this page are NARROWBAND only. Limited to 3 watts ERP North of Line A or East of Line C.			

UHF MED (Medical, EMS) Channels

These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required.

Channel Name	Mobile RX (MHz)	Mobile TX (MHz)	Bandwidth
MED–9 *	462.950	467.950	12.5, 6.25
MED–91 *	462.95625	467.95625	6.25
MED–92 *	462.9625	467.9625	12.5, 6.25
MED–93 *	462.96875	467.96875	6.25
MED–10 *	462.975	467.975	12.5, 6.25
MED–101 *	462.98125	467.98125	6.25
MED–102 *	462.9875	467.9875	12.5, 6.25
MED–103 *	462.99375	467.99375	6.25

* Used primarily for dispatch; may be used for mutual aid. 47CFR90.20(d)(65).
Direct mode: receive & transmit on “Mobile RX” freq.; add “D” to channel name.
Repeater mode: mobile transmits on “Mobile TX” freq., receives on “Base & Mobile TX” freq.
CTCSS as required by local plan.

UHF MED (Medical, EMS) Channels (Continued)

These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required.

Channel Name	Mobile RX (MHz)	Mobile TX (MHz)	Bandwidth
MED–1	463.000	468.000	12.5, 6.25
MED–11	463.00625	468.00625	6.25
MED–12	463.0125	468.0125	12.5, 6.25
MED–13	463.01875	468.01875	6.25
MED–2	463.025	468.025	12.5, 6.25
MED–21	463.03125	468.03125	6.25
MED–22	463.0375	468.0375	12.5, 6.25
MED–23	463.04375	468.04375	6.25

Direct mode: receive & transmit on “Mobile RX” freq.; add “D” to channel name.
Repeater mode: mobile transmits on “Mobile TX” freq., receives on “Base & Mobile TX” freq.
CTCSS as required by local plan.

(Medical, EMS) Channels (Continued)

These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required.

Channel Name	Mobile RX (MHz)	Mobile TX (MHz)	Bandwidth
MED–3	463.050	468.050	12.5, 6.25
MED–31	463.05625	468.05625	6.25
MED–32	463.0625	468.0625	12.5, 6.25
MED–33	463.06875	468.06875	6.25
MED–4	463.075	468.075	12.5, 6.25
MED–41	463.08125	468.08125	6.25
MED–42	463.0875	468.0875	12.5, 6.25
MED–43	463.09375	468.09375	6.25

Direct mode: receive & transmit on “Mobile RX” freq.; add “D” to channel name.
Repeater mode: mobile transmits on “Mobile TX” freq., receives on “Base & Mobile TX” freq.
CTCSS as required by local plan.

These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required.

Channel Name	Mobile RX (MHz)	Mobile TX (MHz)	Bandwidth
MED–5	463.100	468.100	12.5, 6.25
MED–51	463.10625	468.10625	6.25
MED–52	463.1125	468.1125	12.5, 6.25
MED–53	463.11875	468.11875	6.25
MED–6	463.125	468.125	12.5, 6.25
MED–61	463.13125	468.13125	6.25
MED–62	463.1375	468.1375	12.5, 6.25
MED–63	463.14375	468.14375	6.25

Direct mode: receive & transmit on “Mobile RX” freq.; add “D” to channel name.
Repeater mode: mobile transmits on “Mobile TX” freq., receives on “Base & Mobile TX” freq.
CTCSS as required by local plan.

These frequencies are NOT covered by the blanket authorization for nationwide interoperability channels. A valid FCC license for these frequencies is required.

Channel Name	Mobile RX (MHz)	Mobile TX (MHz)	Bandwidth
MED–7	463.150	468.150	12.5, 6.25
MED–71	463.15625	468.15625	6.25
MED–72	463.1625	468.1625	12.5, 6.25
MED–73	463.16875	468.16875	6.25
MED–8	463.175	468.175	12.5, 6.25
MED–81	463.18125	468.18125	6.25
MED–82	463.1875	468.1875	12.5, 6.25
MED–83	463.19375	468.19375	6.25

Direct mode: receive & transmit on “Mobile RX” freq.; add “D” to channel name.
Repeater mode: mobile transmits on “Mobile TX” freq., receives on “Base & Mobile TX” freq.
CTCSS as required by local plan.

700 MHz Nationwide Interoperability Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 87 (10/24/2014).	
TX NAC: \$293 (659_{10}). RX NAC \$F7E (3966_{10}). Talk Group ID: \$00001 (1_{10}) Manufacturer's ID: \$00 (0_{10}) Message ID: \$00000000000000000000 (0_{10})	Encryption: • No encryption on calling channels • Algorithm ID: \$80 (128_{10}) • Key ID: \$0000 (0_{10})
"\$" indicates hexadecimal value, "10" subscript indicates decimal value.	

Primary Use	Ch Name	RX	TX
Calling Channel *	7CALL50	769.24375	799.24375
Calling Channel *	7CALL50D	769.24375	769.24375
General Public Safety	7TAC51	769.14375	799.14375
General Public Safety	7TAC51D	769.14375	769.14375
General Public Safety	7TAC52	769.64375	799.64375
General Public Safety	7TAC52D	769.64375	769.64375
General Public Safety	7TAC53	770.14375	800.14375
General Public Safety	7TAC53D	770.14375	770.14375

* Recommended as PRIMARY calling channel for 700 MHz Band.

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
General Public Safety	7TAC54	770.64375	800.64375
General Public Safety	7TAC54D	770.64375	770.64375
General Public Safety	7TAC55	769.74375	799.74375
General Public Safety	7TAC55D	769.74375	769.74375
General Public Safety	7TAC56	770.24375	800.24375
General Public Safety	7TAC56D	770.24375	770.24375
Other Public Service	7GTAC57	770.99375	800.99375
Other Public Service	7GTAC57D	770.99375	770.99375
Mobile Repeater	7MOB59	770.89375	800.89375
Mobile Repeater	7MOB59D	770.89375	770.89375
Law Enforcement	7LAW61	770.39375	800.39375
Law Enforcement	7LAW61D	770.39375	770.39375
Law Enforcement	7LAW62	770.49375	800.49375
Law Enforcement	7LAW62D	770.49375	770.49375

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
Fire	7FIRE63	769.89375	799.89375
Fire	7FIRE63D	769.89375	769.89375
Fire	7FIRE64	769.99375	799.99375
Fire	7FIRE64D	769.99375	769.99375
EMS	7MED65	769.39375	799.39375
EMS	7MED65D	769.39375	769.39375
EMS	7MED66	769.49375	799.49375
EMS	7MED66D	769.49375	769.49375
Mobile Data *	7DATA69	770.74375	800.74375
Mobile Data *	7DATA69D	770.74375	770.74375
Calling Channel **	7CALL70	773.25625	803.25625
Calling Channel **	7CALL70D	773.25625	773.25625

* Voice communications are permitted on 7DATA69 / 7DATA69D on a secondary basis - 90.531(b)(1)(i). ** Recommended as SECONDARY calling channel or INCIDENT calling channel for 700 MHz band.

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
General Public Safety	7TAC71	773.10625	803.10625
General Public Safety	7TAC71D	773.10625	773.10625
General Public Safety	7TAC72	773.60625	803.60625
General Public Safety	7TAC72D	773.60625	773.60625
General Public Safety	7TAC73	774.10625	804.10625
General Public Safety	7TAC73D	774.10625	774.10625
General Public Safety	7TAC74	774.60625	804.60625
General Public Safety	7TAC74D	774.60625	774.60625
General Public Safety	7TAC75	773.75625	803.75625
General Public Safety	7TAC75D	773.75625	773.75625
General Public Safety	7TAC76	774.25625	804.25625
General Public Safety	7TAC76D	774.25625	774.25625

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
Other Public Service	7GTAC77	774.85625	804.85625
Other Public Service	7GTAC77D	774.85625	774.85625
Mobile Repeater	7MOB79	774.50625	804.50625
Mobile Repeater	7MOB79D	774.50625	774.50625
Law Enforcement	7LAW81	774.00625	804.00625
Law Enforcement	7LAW81D	774.00625	774.00625
Law Enforcement	7LAW82	774.35625	804.35625
Law Enforcement	7LAW82D	774.35625	774.35625

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
Fire	7FIRE83	773.50625	803.50625
Fire	7FIRE83D	773.50625	773.50625
Fire	7FIRE84	773.85625	803.85625
Fire	7FIRE84D	773.85625	773.85625
EMS	7MED86	773.00625	803.00625
EMS	7MED86D	773.00625	773.00625
EMS	7MED87	773.35625	803.35625
EMS	7MED87D	773.35625	773.35625
Mobile Data *	7DATA89	774.75625	804.75625
Mobile Data *	7DATA89D	774.75625	774.75625
* Voice communications are permitted on 7DATA89 / 7DATA89D on a secondary basis - 90.531(b)(1)(i).			

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
Air - Ground	7AG58	769.13125	799.13125
Air - Ground	7AG58D	769.13125	769.13125
Air - Ground	7AG60	769.63125	799.63125
Air - Ground	7AG60D	769.63125	769.63125
Air - Ground	7AG67	770.13125	800.13125
Air - Ground	7AG67D	770.13125	770.13125
Air - Ground	7AG68	770.63125	800.63125
Air - Ground	7AG68D	770.63125	770.63125

(Continued)
TX NAC: $293 (65910). RX NAC $F7E (396610). These channels are reserved for air-ground communications to be used by low-altitude aircraft and ground based stations: See FCC rule 90.531(7). (i) Airborne use of these channels is limited to aircraft flying at or below 457 meters (1500 feet) above ground level. (ii) Aircraft are limited to 2 watts effective radiated power (ERP) when transmitting while airborne on these channels. (iii) Aircraft may transmit on either the mobile or base transmit side of the channel pair. (iv) States are responsible for the administration of these channels. These are NOT nationwide interoperability channels.

700 MHz Nationwide Interoperability Channels (Continued)

Primary Use	Ch Name	RX	TX
Air - Ground	7AG78	773.11875	803.11875
Air - Ground	7AG78D	773.11875	773.11875
Air - Ground	7AG80	773.61875	803.61875
Air - Ground	7AG80D	773.61875	773.61875
Air - Ground	7AG85	774.11875	804.11875
Air - Ground	7AG85D	774.11875	774.11875
Air - Ground	7AG88	774.61875	804.61875
Air - Ground (LZ)*	7AG88D	774.61875	774.61875

* 7AG88D is recommended for Landing Zone use.
TX NAC: $293 (65910). RX NAC $F7E (396610). These channels are reserved for air-ground communications to be used by low-altitude aircraft and ground based stations: See FCC rule 90.531(7). (i) Airborne use of these channels is limited to aircraft flying at or below 457 meters (1500 feet) above ground level. (ii) Aircraft are limited to 2 watts effective radiated power (ERP) when transmitting while airborne on these channels. (iii) Aircraft may transmit on either the mobile or base transmit side of the channel pair. (iv) States are responsible for the administration of these channels. These are NOT nationwide interoperability channels.

Non-Federal 800 MHz National Mutual Aid Repeater Channels

Description	Ch. Name	RX (MHz)*	TX (MHz)*
Calling	8CALL90	851.0125 (866.0125)	806.0125 (821.0125)
Calling – Direct	8CALL90D	851.0125 (866.0125)	851.0125 (866.0125)
Tactical	8TAC91	851.5125 (866.5125)	806.5125 (821.5125)
Tactical – Direct	8TAC91D	851.5125 (866.5125)	851.5125 (866.5125)
Tactical	8TAC92	852.0125 (867.0125)	807.0125 (822.0125)
Tactical – Direct	8TAC92D	852.0125 (867.0125)	852.0125 (867.0125)
Tactical	8TAC93	852.5125 (867.5125)	807.5125 (822.5125)
Tactical – Direct	8TAC93D	852.5125 (867.5125)	852.5125 (867.5125)
Tactical	8TAC94	853.0125 (868.0125)	808.0125 (823.0125)
Tactical – Direct	8TAC94D	853.0125 (868.0125)	853.0125 (868.0125)

CTCSS 156.7(5A) receive and transmit.
*The frequency in parenthesis, which is 15 MHz higher, is the frequency used before Rebanding - channel names were ICALL, ITAC1 - ITAC4. Wideband FM 20K0F3E before and after Rebanding.

Suggested SAR Function	Frequency (MHz)
Ground Operations	155.1600 narrowband FM
Maritime Operations *	157.050 or 157.150 (VHF Marine ch.1021 or 1023) as specified by USCG Sector Commander
Air Operations – civilian	123.100 MHz AM (may not be used for tests or exercises)
Air Operations – USCG/Military	345.0 MHz AM for initial contact only, then move to 282.8 MHz AM or another working channel
Air rescue assets to air rescue assets (deconfliction)	As charted on standard air chart or MULTICOM 122.850 (south or west sector) & 122.900 MHz (north or east sector), or as specified by FAA. 122.850 may not be used for tests or exercises
Ground to Air SAR working channel	157.175 1083 (1021, 1023, 1081 alternates as specified by local USCG Sector Commander) **
Ground to Maritime SAR working channel	157.050 1021 (1023, 1081, 1083 alternates as specified by local USCG Sector Commander) **
Maritime/Air/Ground SAR working channel *	157.175 1083 (1021, 1023, 1081 alternates as specified by local USCG Sector Commander) **
EMS / Medical Support	155.3400 narrowband FM

Suggested SAR Function	Frequency (MHz)
Hailing* & DISTRESS only - Maritime/Air/Ground	156.800 VHF Marine channel 16 *

* Use VHF Marine ch.16 to make contact (30 seconds max.), then move to appropriate working channel as directed by local USCG Sector Commander. Non-maritime use of any VHF Marine channel requires FCC Special Temporary Authority or appropriate license. VHF marine channels use wideband FM, emission 16K0F3E

** VHF Marine channels: 16=156.800 1021=157.050 1022=157.100 1023=157.150 1081=157.075 1082=157. 125 1083=157. 1750 Direction from USCG, FCC, or FAA overrides information in this table. This table does not convey authority to operate.

COMMONLY USED FREQUENCIES

Federal/Non-Federal VHF SAR Operations Interoperability Plan	
Suggested SAR Function	Frequency (MHz)
Ground Operations	155.1600 narrowband FM
Maritime Operations *	157.050 or 157.150 (VHF Marine ch.21A or 23A) as specified by USCG Sector Commander
Air Operations – civilian	123.100 MHz AM (may not be used for tests or exercises)
Air Operations – USCG/Military	345.0 MHz AM for initial contact only, then move to 282.8 MHz AM or other working channel
Air rescue assets to air rescue assets (deconfliction)	As charted on standard air chart or MULTICOM 122.850 (south or west sector) & 122.900 MHz (north or east sector), or as specified by FAA. 122.850 may not be used for tests or exercises
Ground to Air SAR working channel	157.175 83A (21A, 23A, 81A alternates as specified by local USCG Sector Commander) **
Ground to Maritime SAR working channel	157.050 21A (23A, 81A, 83A alternates as specified by local USCG Sector Commander) **
Maritime/Air/Ground SAR working channel *	157.175 83A (21A, 23A, 81A alternates as specified by local USCG Sector Commander) **
EMS/Medical Support	155.3400 narrowband FM
Hailing* & DISTRESS only - Maritime/Air/Ground	156.800 VHF Marine channel 16 *
* Use VHF Marine ch.16 to make contact (30 seconds max.), then move to appropriate working channel as directed by local USCG Sector Commander. Non-maritime use of any VHF Marine channel requires FCC Special Temporary Authority or appropriate license. VHF marine channels use wideband FM, emission 16K0F3E. ** VHF Marine channels: 16=156.800	

Federal/Non-Federal VHF SAR Operations Interoperability Plan	
Suggested SAR Function	Frequency (MHz)
21A=157.050 22A=157.100 23A=157.150 81A=157.075 82A=157.125 83A=157.1750. Direction from USCG, FCC, or FAA overrides information in this table. This table does not convey authority to operate.	

SAR (SEARCH AND RESCUE) FREQUENCIES

Land SAR

Typical frequencies are: 155.160, .175, .205, .220, .235, .265, .280, or .295 If CTCSS is required try 127.3 Hz (3A).

Air SAR

3023, 5680, 8364 kHz upper sideband (lifeboat/survival craft),

4125 kHz upper sideband (distress/safety with ships and coast stations)

121.5 MHz emergency and distress
122.9 MHz SAR secondary & training
123.1 MHz SAR primary

Water SAR

156.300 (VHF Marine ch 06) Safety and SAR
156.450 (VHF Marine ch 09) Non-commercial supplementary calling 156.800 (VHF Marine ch 16) DISTRESS and calling
156.850 (VHF Marine ch 17) State & Local Government Maritime Control
157.100 (VHF Marine ch 22A) Coast Guard Liaison

EMERGENCY SUPPORT FUNCTIONS (ESF)

ESF #1: Transportation	ESF #9: Search and Rescue
ESF #2: Communications	ESF #10: Oil & Hazardous Materials Response
ESF #3: Public Works and Engineering	ESF #11: Agriculture and Natural Resources Annex
ESF #4: Firefighting	ESF #12: Energy
ESF #5: Information and Planning	ESF #13: Public Safety and Security
ESF #6: Mass Care, Emergency Assistance, Temporary Housing, and Human Services	ESF #14: Cross-Sector Business and Infrastructure
ESF #7: Logistics	ESF #15: External Affairs
ESF #8: Public Health and Medical Services	Telephone number for all ESFs during activations 202-212-2424

SATELLITE COMMUNICATIONS SYSTEMS

Owning/Managing Agency	Sat Phone System	Equipment	Sat Phone #
State of [State]	Iridium		

DIALING INSTRUCTIONS FOR IRIDIUM

From a US Landline dial 011 + 8816xxxxxxx (Iridium Phone Number). Iridium PIN (default) is 1111 (enter when powering-on the Iridium Subscriber Unit. Iridium Test Call – no airtime charge: 00 + 1 + 480.752.5105

NAC – NETWORK ACCESS CODES

P25 DIGITAL CODES

NAC – Network Access Codes

$293	659_{10}	default NAC
$F7E	3966_{10}	receiver will un-squelch with any incoming NAC
$F7F	3967_{10}	a repeater with this NAC will allow incoming signals to be repeated with the NAC intact

TGID – Talkgroup ID

$0001	1_{10}	default
$0000	0_{10}	no-one, talkgroup with no users – used for individual call
$FFFF	65535_{10}	a repeater with this NAC will allow incoming signals to be repeated with the NAC intact

Unit ID

$000000	0_{10}	default
$000001-$98767F	1_{10} – 9991807_{10}	no-one, talkgroup with no users – used for individual call
$989680-$FFFFFE	10000000_{10} -16777214_{10}	a repeater with this NAC will allow incoming signals to be repeated with the NAC intact
$FFFFFF	16777215_{10}	designates everyone – used when implementing a group call with a TGID3

Note: Project 25 System Administrators should be aware of possible Unit ID conflicts when conducting operations with neighboring jurisdictions. System administrators should coordinate Unit IDs with agencies likely to operate on their system(s) to address any radio Unit ID conflicts.
"$" indicates hexadecimal values, "10" subscript indicates decimal value.

CTCSS TONES AND CODES

* California FIRESCOPE tone list, used by NIFC and CA fire agencies Ref. https://firescope.caloes.ca.gov/ICS%20Documents/2020%20MACS-441-1.pdf.

** 69.4 in some radios CTCSS refers to subaudible tones which are used to access a repeater or open the squelch on a receiver. CTCSS tones are used in order to minimize co-channel interference and/or to “mask” unwanted transmissions. A repeater configured to require a CTCSS tone will remain silent until it receives a transmission from a radio sending the correct CTCSS tone. Likewise, a radio configured with a CTCSS tone on the receive side will not open squelch unless the transmitting station sends the correct tone. Communications Plans (ICS 205) should list any required CTCSS tones.

CTCSS Tones and Codes

Freq. (Hz)	Motorola Code	NIFC & CA Fire *	Freq. (Hz)	Motorola Code	NIFC & CA Fire *
67.0	XZ	17	136.5	4Z	4
69.3**	WZ		141.3	4A	13
71.9	XA	18	146.2	4B	5
74.4	WA	19	151.4	5Z	14
77.0	XB	20	156.7	5A	6
79.7	WB	21	162.2	5B	15
82.5	YZ	22	167.9	6Z	7
85.4	YA	23	173.8	6A	29
88.5	YB	24	179.9	6B	30

CTCSS Tones and Codes

Freq. (Hz)	Motorola Code	NIFC & CA Fire *	Freq. (Hz)	Motorola Code	NIFC & CA Fire *
91.5	ZZ	25	186.2	7Z	31
94.8	ZA	26	192.8	7A	16
97.4	ZB	27	203.5	M1	32
100.0	1Z	9	206.5	8Z	
103.5	1A	8	210.7	M2	
107.2	1B	10	218.1	M3	
110.9	2Z	1	225.7	M4	
114.8	2A	11	229.1	9Z	
118.8	2B	28	233.6	M5	
123.0	3Z	2	241.8	M6	
127.3	3A	12	250.3	M7	
131.8	3B	3	254.1	0Z	

DCS CODES

DCS codes are a newer form of coded squelch that was added to offer additional options beyond the CTCSS tones. Some older radios do not have the ability to utilize DCS codes. DCS codes function the same and are utilized in a similar manner to CTCSS tones. Communications Plans documented on an ICS 205 should list any required DCS codes needed when programming radios. Use the tables below when searching for valid DCS codes.

DCS Codes							
Normal	**Inverted**	**Nor.**	**Inv.**	**Nor.**	**Inv.**	**Nor.**	**Inv.**
023	047	155	731	325*	526	516	432
025	244	156	265	331	465	523*	246
026	464	162	503	332*	455	526*	325
031	627	165	251	343	532	532	343
036*	172	172	036	346	612	546	132
043	445	174	074	351	243	565	703
047	023	205	263	364	131	606	631
051	032	212*	356	365	125	612	346
053*	452	223	134	371	734	624	632
054	413	225*	122	411	226	627	031
065	271	226	411	412	143	631	606
071	306	243	351	413	054	632	624
072	245	244	025	423	315	654	743
073	506	245	072	431	723	662	466
074	174	246*	523	432	516	664	311
114	712	251	165	445	043	703	565
115	152	252*	462	446*	255	712	114
116	754	255*	446	452*	053	723	431
122*	225	261	732	454*	266	731	155
125	365	263	205	455*	332	732	261
131	364	265	156	462*	252	734	371
132	546	266*	454	464	026	743	654
134	223	271	065	465	331	754	116
143	412	274*	145	466	662		
145*	274	306	071	503	162		
152	115	311	664	506	073		
032	051	315	423				

** This Code is not standard amongst sampling of 12 different radios checked.*

GENERAL REFERENCE INFORMATION

INTERNET SERVICE PROVIDERS

Service Provider	24/7 #
Century link	800-788-3600
SECOM	800-657-7149
[State] Mobile	
Bresnan Communications	877-273-7626
Verizon Wireless	877-899-7378

EMERGENCY PREPAREDNESS NETWORK (EPN)

To place an emergency notification, call to alert the public about an incident:

County	Access Point	24/7 #

WIRELESS RESPONSE NUMBERS

Agency	Name	24/7 #
Verizon	Crisis Response Dispatch	800-981-9558
Sprint	Crisis Response Dispatch	800-639-0020 or with GETS card 254-295-2220

TELEPHONE COMMUNICATIONS SYSTEMS

The National Communications System (NCS) Coordination Center will assist Jurisdictions with referrals to corporate level contacts for wireless/wire line service provider representatives if needed.

Service Provider	24/7 #	Address
Verizon Wireless	1-800-621-9900	
AT&T Wireless	1-866-541-9791	
NCS-NCC	1-703-235-5080	ncs@dhs.gov
Century link	1-800-201-4102	

Requesting GETS and WPS

- Designate a GETS/WPS Point of Contact (POC) for your organization.
- POC establishes GETS and WPS account online using www.cisa.gov/gets or www.cisa.gov/wps or by contacting the Priority Telecommunications Service Center at **1-866-627-2255**.
- POC requests GETS and WPS for an initial group of users/key functions/locations through the online system.
- POC distributes GETS Cards and confirms WPS activations.

NOTICE: A subscriber must specifically request GETS and/or WPS - signing up for one service does not automatically subscribe the POC to both.

Requesting TSP

- Request a TSP Account (TSP "POC") through the Priority Telecommunications Service Center at 1-866-627-2255.
- Identify specific services for TSP; Submit TSP Service Request(s) on a per service basis.
- Upon approval, the Service Center sends TSP Code for each specific service.
- Order TSP through your service vendor.
- Update internal records and procedures to reflect implementation of TSP.

NOTICE: Signing up for TSP does not automatically subscribe the POC to GETS and/or WPS – a subscriber must specifically request each service of interest.

GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE CARD

TEXT MESSAGING

"xxxxxxxxxx" is the 10-digit telephone number

In many emergency situations text messaging may be a better way of communication than actually calling on the cellular phones. Text messaging takes less bandwidth and time to send messages and may go through when voice calls are not possible.

TEXT MESSAGING	
Selected US & Canadian Cellular Text Messaging Carriers	
"number" is the 10-digit mobile telephone number, unless 11-digit-number is specified	
Alltel	SMS: number@sms.alltelwireless.com MMS: number@mms.alltelwireless.com
AT&T	SMS: number@txt.att.net MMS: number@mms.att.net
Bell Canada	SMS & MMS: number@txt.bell.ca
Boost Mobile	SMS: number@sms.myboostmobile.com MMS: number@myboostmobile.com
C Spire Wireless	SMS & MMS: number@cspire.com
Cricket Wireless	SMS: number@sms.mycricket.com SMS: number@sms.cricketwireless.net MMS: number@mms.mycricket.com MMS: number@mms.cricketwireless.net
Metro PCS	SMS & MMS: number@mymetropcs.com or number@metropcs.sms.us
Qwest	SMS & MMS: number@qwestmp.com
SouthernLinc Wireless	SMS: number@page.southernlinc.com MMS: number@mms.southernlinc.com

Sprint	SMS & MMS: number@messaging.sprintpcs.com or number@pm.sprint.com
T-Mobile	SMS & MMS: 10-digit-number@tmomail.net
Telus Mobility	SMS & MMS: number@msg.telus.com MMS: number@mms.telusmobility.com
TracFone	SMS & MMS: number@mmst5.tracfone.com
U.S. Cellular	SMS: number@email.uscc.net MMS: number@mms.uscc.net
Verizon	SMS: number@vtext.com MMS: number@vzwpix.com
Virgin Mobile	SMS: number@vmobl.com MMS: number@vmpix.com
Alaska	
Alaska Communications	SMS: number@txt.acsalaska.net MMS: 11-digit-number@mms.ak.net
General Communications Inc. (GCI)	SMS: number@mobile.gci.net MMS: number@mms.gci.net
Puerto Rico	
Centennial Wireless	SMS: number@cwemail.com
Claro	SMS: number@vtexto.com
TracFone	SMS: number@mmst5.tracfone.com
U.S. Virgin Islands	
Centennial Wireless	SMS: number@cwemail.com
TracFone	MMS: number@mmst5.tracfone.com
Worldwide	
Iridium	SMS: number@msg.iridium.com

DIALING INSTRUCTIONS FOR IRIDIUM

From a US Landline dial 011 + 8816xxxxxxx (Iridium Phone Number). Iridium PIN (default) is 1111 (enter when powering-on the Iridium Subscriber Unit. Iridium Test Call – no airtime charge: 00 + 1 + 480.752.5105

STANDARD PHONETIC ALPHABET

The phonetic alphabet (shown below) is a standard international procedure for transmission of difficult to pronounce words or place names. The excess use of the phonetic alphabet wastes time on radio networks.

Clarification of words can very often be made using plain English spelling without the need to resort to phonetic spelling.

A	Alfa	**H**	Hotel	**O**	Oscar	**V**	Victor
B	Bravo	**I**	India	**P**	Papa	**W**	Whiskey
C	Charlie	**J**	Juliet	**Q**	Quebec	**X**	X-ray
D	Delta	**K**	Kilo	**R**	Romeo	**Y**	Yankee
E	Echo	**L**	Lima	**S**	Sierra	**Z**	Zulu
F	Foxtrot	**M**	Mike	**T**	Tango		
G	Golf	**N**	November	**U**	Uniform		

ICS Planning Forms

This section contains descriptions of common ICS forms that are used in communications planning or have communications information on them that is provided by the COML.

The only form developed by the Communications Unit that is included in the Incident Action Plan (IAP) is the ICS 205, Incident Radio Communications Plan. The other forms are used to develop the ICS 205 and are kept within the Communications Unit for reference. ICS 204, Field Assignment Form(s) and ICS 206, Incident Medical Plan contain communication data and should be verified/validated by the COML before publication.

FEMA has All-Hazards ICS forms at:
https://training.fema.gov/icsresource/icsforms.aspx

ICS 201 - Incident Briefing

Purpose: The Incident Briefing form provides the basic information regarding the incident situation and resources allocated to the incident.

Preparation: The briefing form is prepared by field command for presentation to the IMT along with a more detailed oral briefing.

ICS 203 - Organization Assignment List

Purpose: The Organization Assignment List provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit. It is used to complete the ICS 207.

Preparation: The Resources Unit prepares and maintains this list under the direction of the Planning Section Chief.

ICS 204 - Field Assignment Form

Purpose: The Field Assignment form is used to inform Operations Section personnel of their incident assignments.

Preparation: The Field Assignment form is normally prepared under direction of the Planning Section Chief using guidance from the ICS 202, ICS 215, and the Operations Section Chief. Radio frequencies listed on the ICS 204 shall be coordinated and confirmed by the COML.

ICS 205 - Incident Radio Communications Plan

Purpose: The Incident Radio Communications Plan provides, in one location, information on the assignments for all communications equipment for each operational period. Information from the ICS 205 on frequency assignments can be placed on the appropriate Field Assignment Form (ICS 204) and the Incident Medical Plan (ICS 206).

Preparation: The Incident Radio Communications Plan is prepared by the Communications Unit Leader.

ICS 206 - Medical Plan

Purpose: The Medical Plan provides information on incident medical aid stations, transportation services, hospitals, and emergency medical procedures.

Preparation: The Medical Plan is prepared by the Medical Unit Leader and reviewed by the Safety Officer. Radio frequency and telephone numbers listed on the ICS 206 shall be coordinated and confirmed by the COML.

ICS 207 - Incident Organization Chart

Purpose: The Incident Organization Chart provides information on the response organization and personnel staffing.

Preparation: The list is prepared and maintained by the Resources Unit under the direction of the Planning Section Chief.

Note: An organization chart may be completed any time the number of personnel assigned to the incident increases or decreases or a change in assignment occurs.

ICS 211 - Incident Check-In List

Purpose: Personnel and equipment arriving at the incident can check in at various incident locations. Check-in consists of reporting specific information, which is recorded on the form.

Preparation: The Check-In List is initiated at a number of incident locations including staging areas, base camps, Helibases, and ICP.

Managers at these locations record the information and give it to the Resources Unit as soon as possible.

ICS 213 - General Message

The General Message form is used by

- Incident dispatchers to record incoming messages which cannot be orally transmitted to the intended recipients.
- EOC and other incident personnel to transmit messages via radio or telephone to the addressee.
- Incident personnel to send any message or notification which requires hard-copy delivery to other incident personnel.

Preparation: The General Message form may be initiated by incident dispatchers and any other personnel on an incident. Two copies should be sent and one copy retained by the person who initiates the message.

ICS 214 - Unit Log

Purpose: The Unit Log is used to record details of unit activity including specialized team activity (e.g., Strike Team). These Unit Logs can provide a basic reference from which to extract information for inclusion in an after-action report.

Preparation: A Unit Log is initiated and maintained by Command and General Staff members, field command, and Unit Leaders. Completed logs are forwarded to supervisors, who provide copies to the Documentation Unit.

ICS 217A - Communications Resource Availability

Purpose: The Communications Resource Availability Worksheet (ICS 217A) is a template that users may fill out prior to an incident. An agency's interoperable channels and/or talkgroups can be entered on the form, thereby enabling a COML to have the technical information readily available to complete an Incident Radio Communications Plan (ICS 205).

Preparation: The Communications Resource Availability Worksheet is prepared by a COMC or COML in an administrative setting prior to an incident. The ICS 217A provides a standardized template for the presentation of channels or talkgroups that might be considered for use by appropriate personnel during an incident. ICS 217A is duplicated and given to all appropriate Communications Unit personnel who are authorized to use the agency's resources during an incident. This may include COMLs, COMTs, THSPs, etc.

ICS 309 - Communications Log

Purpose: The Communications Log (ICS 309) is used to document radio traffic handled by the ICC. It includes the date and time of the radio traffic as well as the source and destination and a summary of the content of the radio traffic.

Preparation: The Communications Log is maintained by the RADO on an ongoing basis as radio traffic is handled.

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General Rules of Use for Communications Equipment or Channels

- Shall only be used for official business or emergency communications
- Shall be consistent with Federal Communications Commission (FCC) or National Telecommunications and Information (NTIA) Rules
- Use during a Type 3, 2, or 1 incident shall be authorized by the COML of the incident
- Verify that an interoperability channel is clear before transmitting to avoid interfering with the communications of another user
- Rules and Guidelines of interoperable channels (i.e., ISPERN, IREACH, IFERN, etc.)
- Only users actively participating in the incident or authorized by a COML or COMC should monitor or transmit on a given talkgroup
- Scanning across multiple channels should be avoided when using interoperable communications
- All voice radio communications are to be brief and concise
- No use of nicknames, slang, or Citizens Band (CB) type handles shall be used on any interoperable channels

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