



OREGON DEPARTMENT OF EMERGENCY MANAGEMENT

SPIRE IV Proposed Equipment List

For Review and Approval - April 10, 2025, Oregon Homeland Security Council meeting

Attached is a list of equipment for SPIRE IV for the Homeland Security Council review and approval. In past years, the list was prioritized using the following categories:

- Priority 1 – Save/Sustain Lives
- Priority 1 – Urban Search and Rescue
- Priority 2 – Obtain/Maintain Situation Awareness
- Priority 3 – Incident Stabilization
- Priority 4 – Initiate Recovery

OEM has been prioritizing needs through our annual capability assessment and working to ensure grant funding is based on filling capability gaps and community needs identified through this assessment. Developing the equipment list based on these criteria supports better continuity throughout the state. This also helps those applying for equipment to think about what is needed locally and regionally to support statewide readiness.

The Oregon Capability Assessment is an annual assessment that collects data from state agencies, local city and county jurisdictions, and tribal governments on the 32 core capabilities established by FEMA. Data on the priority of each core capability (high, medium, or low) and capacity of implementing the core capability, with a ranking of 0-5 on how well they can do the things related to the core capability, are collected. This data is aggregated from all responses across the state to come up with a statewide priority and ranking for each core capability.

Using the 2024 capability assessment results, equipment needs were prioritized into three priority areas:

- Tier 1 – Response
- Tier 2 – Prevention/Protection
- Tier 3 – Mitigation/Recovery

Key core capabilities for each tier are included in the table below, showing the priority given from the assessment – high, medium, or low. In addition to the priority data, the capacity ranking for that core capability (ranking from 0-5) is shown in the table below. The highest possible ranking is a 5, so even those areas ranked highest (above 3.0) that are current strengths still show a gap exists. Those core capabilities with a ranking below 3.0 are listed as weaknesses. No equipment was listed under Tier 3, Mitigation/Recovery this year, as the equipment gaps and needs are more significant under Tier 1 and 2, Response and Prevention/Protection.

An equipment survey was open for three weeks in December 2024. There were 73 responses with representatives from all 6 regions and several disciplines. Respondents ranked equipment and suggested new equipment. Using survey results, a draft equipment list was developed and presented at a meeting in January for open comment and review. Comments were accepted through January 22, 2025. USAR representatives and other subject matter experts were consulted to finalize the list. The Statewide Interoperability Executive Council (SEIC) is providing guidance to ensure the equipment listed for communications meets the needs of the state. They are also providing specifications for all communications equipment.

Although the Homeland Security Strategy has not been approved, the equipment identified in SPIRE is a strategy for achieving these goals. We have added these proposed goals to show further connections.

OEM will use a regional and categorical distribution strategy to ensure equipment is awarded throughout the entire state. Funds will be allocated, and grants awarded in the following regions and categories:

- Cascades - Crook, Deschutes, Gilliam, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco, Wheeler
- Eastern - Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, Wallowa
- Northwest - Clatsop, Lincoln, Tillamook, Yamhill
- Portland Metro - Clackamas, Columbia, Multnomah, Washington
- Southwest - Coos, Curry, Douglas, Jackson, Josephine
- Willamette Valley - Benton, Lane, Linn, Marion, Polk
- Tribes
- Urban Search and Rescue (USAR)*

**Note, Oregon does not have USAR teams, so a definition was developed for the purposes of this grant*

Tier 1 - Response

Capability Assessment Results

Mass Search and Rescue- Medium priority-3.1 strength
 Operational Communications- High priority- 2.8 weakness
 Fire Management and Suppression- High priority- 3.5 strength

Homeland Security Strategy (Draft)

Goal 6: Advance Interoperable Emergency Communications

Goal 7: Strengthen an All-Hazards Preparedness and Response Capability at the Local, Tribal and State Level

USAR Equipment

Search Cam/Listening Device Kit	Used for technical search and rescue, visual search and location scenarios, and seismic detection. (Only available to agencies meeting USAR grant criteria.)
Unmanned Aerial Vehicle (UAV) with thermal imaging	Used for assessing and monitoring fires or other hazardous areas, providing real-time situation awareness, search and rescue, etc.
Hydraulic Rescue Complement (Cutter, Spreader, Combi Tool, Telescopic Rams)	Used for trench rescue, structural collapse, and technical rescue operations.
Heavy Lift Airbags	Used for trench rescue, structural collapse, and specialized tasks.

Equipment

Unmanned Aerial Vehicle (UAV) with thermal imaging	Used for assessing and monitoring fires or other hazardous areas, providing real-time situation awareness, search and rescue, etc.
Hydraulic Rescue Complement (Cutter, Spreader, Combi Tool, Telescopic Rams)	Used by emergency rescue personnel to assist in the extrication of victims involved in vehicle accidents, and other rescues in small spaces.
Heavy Lift Airbags	Used for heavy equipment lifting.
Utility Terrain Vehicle - Wheeled	Able to seat passengers side-by-side with lots of storage space. Commonly used for search and rescue, emergency medical response, storm response, firefighting, etc.
High-Axle Rescue Water Evacuation Vehicle	Designed to operate in high water and help improve evacuations during major flood events and are particularly useful for large-scale evacuations in metropolitan and rural areas.
Snow Cat	Used for accessing areas with snow and ice when inaccessible by other means, including search and rescue operations.
Compact Rapid Deployable (CRD)	Portable solution providing temporary cellular and high-speed internet connectivity. It integrates cellular antennas, a telescoping mast, and backhaul capabilities, typically satellite or Ethernet. With a range of up to 2 miles for LTE/5G signals and support for up to 600 devices,

	the CRD is ideal for emergency response, disaster recovery, and large-scale operations requiring extensive coverage.
Mini Compact Rapid Deployable (Mini CRD)	A more compact and portable version of the CRD, designed for localized deployments. It provides cellular and high-speed internet connectivity with a range of up to 1/2 mile (extendable to 1 mile with high-power equipment) and can support up to 600 devices. Packaged in rugged, portable cases, the Mini CRD is ideal for scenarios requiring agility, such as small-team operations or remote field deployments.
Communications Unit Leader (COML) Kit	A kit for communications unit leaders that includes information and materials needed for a response kit before receiving an assignment, including critical items for the assignment and functioning during the first 48 hours.
Satellite Connectivity Kit	Provides high-speed internet via satellite, independent of cellular networks. It includes a satellite dish, a router, and a secure transport case, making it a versatile option for remote locations or areas where cellular infrastructure is unavailable or unsuitable. Unlike the CRD, Mini CRD, or COW, which use satellite backhaul to enable cellular coverage, the Satellite Connectivity Kit is focused on delivering internet access directly through a satellite connection.
Set of 8 Triband Portable Radios	Tri-band radios operate on three different frequency bands, adding versatility. Deployed during an emergency for communications.
Mobile Communications Tower Trailer	Designed for land mobile radio (LMR) systems such as mobile repeaters to extend communication range. Unlike the CRD, Mini CRD, or COW, the Portable Tower does not provide cellular coverage but enhances two-way radio communications for first responders and field teams. Its portability and smaller size make it ideal for remote or challenging environments.

Tier 2 - Prevention/Protection	
Capability Assessment Results	
On-Scene Security, Protection, and Law Enforcement- Medium priority- 3.0 weakness Logistics and Supply Chain Management- Medium priority- 2.3 weakness Critical Transportation- Medium priority- 2.6 weakness Infrastructure Systems- Medium Priority- 2.5 weakness Mass Care Services- Medium Priority- 2.5 weakness Public Health, Healthcare, and Emergency Medical Services- Medium priority- 2.7 weakness	
Homeland Security Strategy (Draft)	
Goal 2: Protect Critical Infrastructure Goal 4: Strengthen Counterterrorism Capabilities Goal 5: Increase Public Health and Medical Emergency Resilience	
Equipment	
Traffic Message Board – trailer-mounted	Used to inform the public and direct traffic during critical situations.
Solar (hybrid) Charging Station	Able to be relocated for events or emergency power needs.
Sandbagging Machine – trailer mounted.	Able to fill multiple sandbags increasing efficiency during flooding.
Mobile Command Center (Trailer).	Moved to be on-site during an emergency to coordinate team members quickly and efficiently.
Modular Vehicle Barriers	Used to cordon off impacted areas. They are a non-lethal solution that helps stop vehicles and assist with vehicular control.
Generators (medium, large) – trailer mounted	Able to be moved to provide temporary power.
Fuel Transportation –dual fuel – trailer mounted tank.	Provide fuel for during and after an emergency.
Lighting, Portable	Trailer-mounted lighting system used to enhance safety during emergencies or power outages.
Tier 3 - Mitigation/Recovery	
Capability Assessment Results	
Community Resilience- Medium priority- 3.0 weakness Housing- Medium priority- 1.9 weakness Environmental Response/Health and Safety- Low priority- 2.7 weakness	
Homeland Security Strategy (Draft)	
Goal 5: Increase Public Health and Medical Emergency Resilience Goal 7: Strengthen an All-Hazards Preparedness and Response Capability at the Local, Tribal and State Level	
No equipment prioritized at this time	