

Land Mobile Radio System Semi-Annual REPORT



Reporting Period: January 1, 2024 – June 30, 2024

SUMMARY

The Washington State Patrol (WSP) was appropriated \$6,575,000 from the State Patrol Highway Account (SPHA) in the 2023-2025 Biennium for Land Mobile Radio (LMR) system replacement, upgrade, and other related activities.

Engrossed Substitute House Bill 1125 requires the WSP to provide semiannual reports, beginning January 1, 2024, on progress related to the projects and activities associated with the LMR system, to include governance structure, outcomes achieved in the prior six-month period, and how the activities are being managed. This report is the second report for the 2023-2025 Biennium and covers the period of January 1, 2024, through June 30, 2024.

The current appropriation provided to WSP for the LMR system is consolidated from three separate decision packages. Two of these decision packages are distinct projects and do not have interdependencies (LMR System Upgrade Agreement and LMR Standard Radio Replacement), while the third (Communication Infrastructure) encompasses three interconnected projects (LMR Base Station Replacement, Microwave Radio Replacement, and Alternative Power Units); however, all aspects of each project support the LMR System. The funding distribution (including General Fund) for the three decision packages and expenditures to date are as follows:

Project	Budget	Expenditures to Date
LMR System Upgrade Agreement	\$1,434,000	\$723,483
Communications Infrastructure	\$4,485,000	\$2,550,166
Standard Radio Replacement*	\$953,700	-
Current Total	\$6,872,700	\$3,273,649

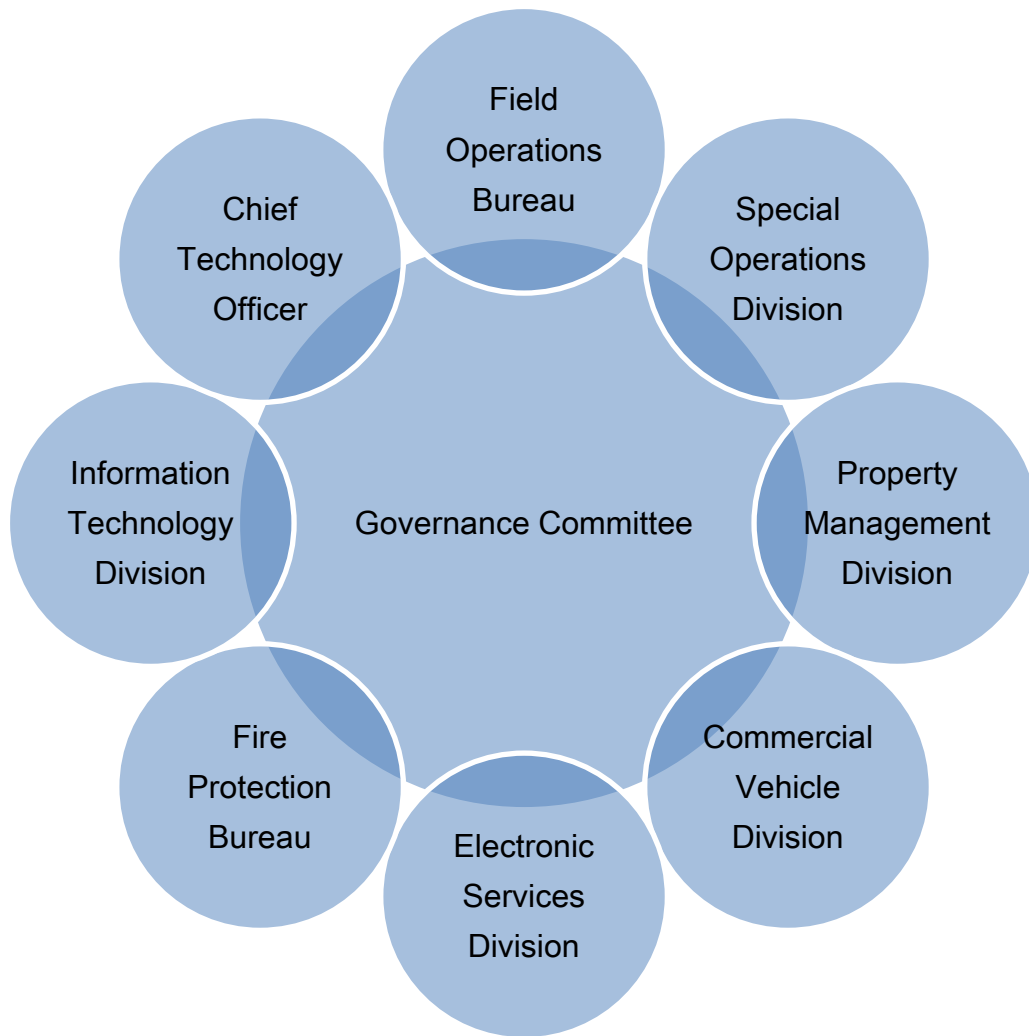
*The appropriated funding for the Standard Radio Replacement is tied to an anticipated Certificate of Participation (COP) valued at \$27,500,911.

LMR PROGRAM GOVERNANCE

Overview

Provide program governance over the WSP Public Safety Land Mobile Radio (LMR) system, which is a vital statewide communications network that provides real-time communications to support Public Safety response throughout the state of Washington.

Structure



Roles and Decision Making Process

Governance (Steering) Committee Roles:

- Approve project deliverables.
- Make decisions on matters pertaining to scope and schedule.
- Attend steering committee meetings to address questions, issues, risks, and concerns identified by the project.
- Set priorities and resolve issues.
- Represent the interests and concerns of WSP stakeholders.
- Track issues that may affect stakeholders and their organizations.
- Identify, secure, and assign project resources.
- Provide governance structure for prioritization of rollout.

Decision Making Process: Decisions will be made based upon a majority approval or via consensus, with each area represented. Governance/Steering committee meetings are used to address concerns and reservations before moving forward with recommendations.

In cases where a full consensus or majority cannot be agreed upon, the concerns or reservations will be provided to each respected Bureau Commander for guidance and/or determination. Ultimately, the Chief, will have final decision.

Accomplishments: Charter has been approved that defines roles and responsibilities for each stakeholder. ESD has established a technical committee that provides support for/or clarification to the governance committee.



Project Updates

LMR System Upgrade – Complete

WSP received \$1,434,000. This funding enabled WSP to enter into an agreement with Motorola for upgraded land mobile radio equipment including software and hardware. The System Upgrade Agreement (SUA) is a six-year agreement that provides three full system updates during those six years at a significantly reduced cost compared to one-time upgrades. Upgrade activities commenced October 2023.

- Phase 2 (of 2) of the Motorola SUA was completed January 2024.
- The table below represents the funds spent this reporting period.
- The LMR System Upgrade has been completed within Scope, Schedule, and Budget.

LMR System Upgrade Agreement	Total
SUA - Phase 2	\$723,483
Total	\$723,483

Communications Infrastructure – In Scope, On Schedule, within Budget

WSP received \$4,485,000 to continue replacement and upgrade of aging public safety communications system hardware. This includes replacing 1/3 of the WSP LMR base stations, repeaters, microwave radios, site batteries, and associated support equipment, such as network routers and switches, over three biennia.

- LMR Base Station Replacement: In Scope, On Schedule, within Budget
 - February 2024, WSP received all 76 identified LMR GTR base stations in August 2023.
 - Electronic Services Division prioritized the installations based on criticality and ability to get to the mountain sites, due to snowpack at higher elevations (where the radio towers are).
 - As of June 2024, Electronic Services Division has completed 62 of the 76 base station installations.
 - Estimated completion of the remaining 14 installations is by end of July 2024.
 - The table below represents the funds spent this reporting period.

LMR Base Station Replacement	Total Spent
76 LMR Base stations	\$1,211,432
Total	\$1,211,432

- Microwave Radio Replacement: **In Scope, On Schedule, within Budget**

- All identified 48 Cisco network switches have been received and are waiting configuration, validation, and installation.
 - Estimated completion of installation is by November 2024.
- All 52 Nokia microwave radios ordered in August 2023 were received in January 2024 and are being scheduled for installation.
 - Due to extended snowpack, sites were not accessible and are now becoming available.
 - The remaining 50 Nokia microwave radios will be ordered and installed prior to July 2025.
- All 50 NetGuardian alarm monitoring devices for this fiscal year have been installed and are operational as designed.
 - The remaining 45 NetGuardian devices will be delivered after July 1, 2024, and will be scheduled accordingly.
- The table below represents the funds spent this reporting period.

Microwave Radio Replacement	Total Spent
48 Cisco 9300 network switches	\$321,760
50 Nokia microwave radios	\$739,996
50 NetGuardian alarm monitoring devices	\$245,216
Total	\$1,306,972

- Alternative Power Units: **In Scope, On Schedule, within Budget**

- WSP has completed four site battery replacements of the identified 23 scheduled.
- WSP has placed orders for the next set of Site.
- Sites to be installed have been identified, delivery lead times have been identified, and a schedule has been developed.
- The table below represents the funds spent this reporting period.

Alternative Power Units	Total Spent
Four Site Battery Replacements	\$31,762
Total	\$31,762

Standard Radio Replacement – In Scope, On Schedule, within Budget

WSP received appropriated funding tied to an anticipated Certificate of Participation (COP) valued at \$27,500,911. The appropriation allows replacement of all mobile (in vehicle) and portable radios that are Out of Service as of December 31, 2023.

- Mobile Radio (In Vehicle)
 - January 2024, WSP placed the order for 1,489 mobile radios and associated equipment.
 - Motorola expedited the WSP order for radio production.
 - April 2024, WSP began receiving three 53-foot semi-truck shipments of 89 pallets of radios and equipment (ahead of schedule).
 - All ordered equipment has been received.
 - WSP Supply Section has processed the equipment to include accepting, tagging, and placing into WSP inventory.
 - WSP Electronic Services Division:
 - Took possession and distributed the equipment across the state for implementation staging.
 - Developed the implementation methodology, to include installation training, end user familiarity and orientation, statewide agency installation, and surplus of retired radios.
 - Radio installation and implementation completion is targeted for the end of the third quarter of 2024.

- Portable Radio
 - February 2024, WSP placed an order for 1,388 portable radios and associated equipment.
 - Motorola expedited the order for radio production.
 - May 2024, WSP began receiving pallets of portable radios and associated equipment.
 - WSP Supply Section began processing the equipment to include accepting, tagging,

and placing into WSP inventory.

- WSP Electronic Services Division has taken possession and distributed the equipment across the state for staging prior to implementation.
- Once we receive and pay for all the equipment, we will enter into a Certificate of Participation (COP) through the Office of the State Treasurer. We anticipate the first COP payment will be due in June 2025.