

Icicle Strategy Project Funding Request

Project Title: *Alpine Lakes Automation - Repeater*

Project Sponsor: *IPID/Chelan County*

Date: *6/11/2026*

Short Description: *A new UHF repeater is needed on Icicle Ridge to enable communication to all target Alpine Lakes reservoirs (Square Lake, Klonaqua Lake, Colchuck Lake, Eightmile Lake, Snow Lake). This repeater will establish a reliable DMR digital voice network linking field staff at remote lakes to base personnel. The repeater will also provide the foundational infrastructure for a scalable platform for future lake-level and lake-release telemetry, remote control, and data transport. Installation in this repeater is the first phase in establishing a broad communication network that will enable automation of all alpine lakes reservoirs.*

Project Phase (feasibility, design, implementation, etc.) *Implementation*

Total Budget (for this phase): *\$250,000*

Funding Request to IWG for OCR Funding: *\$250,000*

Additional Budget/Funding Notes:

Phase 1 Alpine Lakes Automation Communication Network Icicle Ridge Repeater

Building Pepro	\$	110,000
10 Subscribers	\$	14,750
Repeater, Duplexer & Cables	\$	6,351
Solar Battery Plant	\$	18,404
Labor, staging, prep, testing	\$	42,400
Services FCC Licensing	\$	2,500
Helicopter support, coordination	\$	30,000
Contingencies, tax	\$	25,000
Total	\$	249,406

Expected Timeline: *Installation is planned for 2026 (2027 is backup)*

Project Benefits

Is this project identified in the PEIS Preferred Alternative? *Yes, this is part of the Alpine Lakes Automation Project.*

What Guiding Principles does this project help address and how?

Improve Agricultural Reliability

Improve Instream Flow

Sustainable Leavenworth National Fish Hatchery

Comply with State and Federal Law, Wilderness Acts

This project improves management of lake releases of stored water based on irrigation district/agricultural needs, hatchery needs, and instream flow needs. This project will ultimately result in increased stream flow for fish and improve reliability of stored water for irrigation and hatchery needs.

For water savings and instream flow projects:

Where does the saved water go? *Icicle Creek and tributaries (Leland Creek, French Creek, Mountaineer Creek, Eightmile Creek, Snow Creek)*

How much (cfs)? *Varies*

What reach(es) will see the benefit? *From each Alpine Lake downstream to the Wenatchee river confluence*