Hawaii Emergency Amateur Radio Digital Network (HEARDn) Summary

Mission: To provide emergency broadcasting via digital radio airwaves.

Category: Community Support Services

Contact: Michael Miller, President & CEO

Address: 44-096 Keaalau Place, Kaneohe, HI 96744

Grant History: 2023: $20,639
TOTAL GRANTS TO DATE: $20,639

2025 Request:	**$18,900 for GIS Mapping & Emergency Networking Project**

Notes:

- HEARDn consists of eight amateur radio stations offering daily and emergency communication services to Oahu, other islands, and boaters.
- Internet, cell, and landline service is not reliable, especially during natural disasters.
- Radio frequency is a more reliable source of communication.
- Communicates with government, emergency responders, and citizens to provide messages, mapping, data files, etc. necessary for safety and evacuations.
- Mostly self-funded ham radio operation with limited resources.
- 2023 grant: $20,639 for solar battery conversion.

2025: Solar batteries procured.

- Geographic Information Systems mapping and decentralized emergency networking project will provide specialized equipment and training to promote emergency digital networks for transmitting information during emergency situations.
- Request will fund 100 units of specialized equipment. HEARDn will configure, train, and simulate scenarios to ensure emergency readiness of volunteer ham operators.

GRANT REQUEST

For the GIS Mapping and Emergency Networking Project,

Submitted to the
Lawrence H. Dorcy Hawaiian Foundation
January 2025

Hawaii Emergency Amateur Radio Digital Network, Inc. (HEARDn, Inc.)

Aloha Ms. Cownie,

On behalf of HEARDn, Inc., we would like to express our deepest gratitude for the generous funding provided by the Lawrence H. Dorcy Hawaiian Foundation for our Backup Power for Emergency Amateur Radio Gateways project. Your unwavering support has been instrumental in enhancing the resilience of our emergency communications infrastructure across Hawaii.

Although the Maui wildfire significantly delayed our initial installation plans, as well as supply chain challenges related to battery manufacturing and shipping, we are pleased to inform you that all the batteries have now arrived in Hawaii. The Maui station and a Oahu station have successfully been backed up with the high capacity batteries ensuring uninterrupted emergency communications in the event of grid failures. Furthermore, additional stations are scheduled for installation this year, further strengthening the statewide emergency radio network.

In light of these achievements, we are now requesting a new grant of $18,900 for the GIS Mapping and Emergency Networking Project. This funding will cover the costs of equipment, training materials, and an estimated $400 for shipping.

Thank you once again for your unwavering support.

Mahalo,
Michael C. Miller (KH6ML)
President, HEARDn, Inc.
More details on the request.

Hawaii Emergency Amateur Radio Digital Network, Inc. (HEARDn, Inc.)
This initiative seeks to enhance emergency communications in Hawaii by integrating Geographic Information Systems (GIS) mapping and decentralized emergency networking. The project will provide training and specialized equipment to local amateur radio operators, enabling them to establish and maintain emergency digital networks capable of transmitting damage reports, situational awareness updates, and emergency requests during post-disaster scenarios such as earthquakes, tsunamis, wildfires, or grid failures.

Funding Request Overview
We are requesting $18,900 to acquire and distribute 100 units of specialized emergency communications equipment as an incentive for amateur radio operators and emergency volunteers to undergo training and enhance their technical proficiency.

The allocated funds will cover the following expenses:

- 100 Digirig Mobile - Digital Modes Interface for Amateur Radio ($60 per unit)
- 100 Digirig Mobile Cables for Baofeng HTs ($38 per set)
- 100 GL-AR300M16 Wireless Access Points ($36 per unit) Miniature Routers (Reflashable for Amateur Band Frequencies)
- 100 GPS Dongle Units for Mapping & Receiving Coordinates ($19 per unit)
- 100 VARA Licenses ($69 per unit)
- Supporting Equipment & Training Materials

Please note that some equipment models may require adjustments based on newer models, updated specifications, or changes in our training modules. The estimated shipping cost is $400 or less, but final costs will depend on vendor availability and shipping conditions at the time of purchase.

Project Implementation Plan
The project will involve the following steps:

1. Provide training to local amateur radio operators on the use of the specialized emergency communications equipment.
2. Ensure that the equipment is properly configured and set up for emergency use.
3. Collaborate with emergency volunteers to establish and maintain emergency digital networks.
4. Conduct regular training sessions to ensure that operators and volunteers remain proficient in using the equipment.
5. Monitor the effectiveness of the emergency communications system and make necessary improvements based on feedback and observations.

- Phase 1: Equipment Procurement and Distribution (Q2 2025)

- Purchase and configure the necessary hardware.
- Develop an online training course and prepare instructional materials.

• Phase 2: Training and Community Engagement (Q3 2025)
- Conduct statewide training sessions for amateur radio operators.
- Offer incentives for volunteers to complete technical proficiency programs.

• Phase 3: Network Deployment and Testing (Q4 2025)
- Set up and test emergency digital networks in various locations.
- Simulate post-disaster scenarios to assess network functionality.

Impact and Benefits
- This initiative will expand Hawaii's emergency communication infrastructure, ensuring continuous connectivity during disasters.
- It will empower local communities with technical skills and emergency preparedness training.
- It will strengthen inter-island emergency coordination through independent GIS mapping and data networks via Radio.

Primary Point of Contact
Michael C. Miller (KH6ML)
President, HEARDn, Inc.
44-096 Keaalau Place, Kaneohe, HI 96744
Phone: (808) 375-0949 c
Email: KH6ML808@gmail.com

Conclusion
We sincerely appreciate the Lawrence H. Dorcy Hawaiian Foundation's unwavering commitment to supporting Hawaii's resilience and disaster preparedness efforts. Your funding has already significantly enhanced our ability to provide emergency communications solutions. With this new initiative, we aim to further expand the capabilities of our volunteers and radio operators, enabling them to serve our island communities more effectively.

Thank you for considering our application. We eagerly anticipate the opportunity to discuss this project further.

Mahalo,
Michael C. Miller (KH6ML)
President, HEARDn, Inc.

STATE OF HAWAII
DEPARTMENT OF THE ATTORNEY GENERAL
TAX & CHARITIES DIVISION
425 QUEEN STREET
HONOLULU, HAWAII 96813
808-586-1480

ANNUAL CHARITY TRANSMITTAL FORM

IRS Form 990-N filers and filers not required to file with the IRS

Period Covered: _1/1/2024_ to _1/31/2024_____

Tax Year: _2024__ EIN: _8_1_-_2_4_4_6_9_0_8_____

1. Organization Name: HAWAII EMERGENCY AMATEUR RADIO DIGITAL NETWORK INC
HEARDn

2a. Organization's Address Line 1: 44-096 Keaalau Place

2b. Organization's Address Line 2:

2c. Organization's City, State and/or Country & Zip: Kaneohe, HI 96744

3. Organization's Phone Number: 808-375-0949

4. Organization's Email Address: KH6ML808@gmail.com

5. Has organization or any of its officers, directors, employees or fundraisers:

A. Been enjoined or otherwise prohibited by a government agency/court from soliciting? Yes ☐ No ☑

B. Had its registration denied or revoked? Yes ☐ No ☑

C. Been the subject of a proceeding regarding any solicitation or registration? Yes ☐ No ☑

D. Entered into a voluntary agreement of compliance with any government agency or in a case before a court or administrative agency? Yes ☐ No ☑

If "yes" to 5 A or B or C or D, attach explanation: _____

6. Has organization tax exempt status ever been denied, revoked or modified? Yes ☐ No ☑
If yes, attach explanation: _____

7. Name, address and telephone number of person authorized to receive service of process (Registered Agent).

(Note: Line 7 is optional, but if you do not identify a registered agent, pursuant to section 467B-16, Hawaii Revised Statutes, the organization is considered to have irrevocably designated the Hawaii AG as its agent for service of process for actions and proceedings relating to chapter 467B)

Name Michael Miller

Address 44-096 Keaalau Place

City, State & Zip Kaneohe, HI 96744 Telephone 808-375-0949

8. Did the organization borrow from, or make any loans to, any officer, director, trustee, or key employee or were any such loans made in a prior year and still outstanding at the end of the tax year covered by this return? Yes ☐ No ☑
If yes, provide full written explanation and all relevant documents: _____

Total outstanding loan amount at end of year: $ _____

ANNUAL CHARITY TRANSMITTAL FORM

IRS Form 990-N filers and filers not required to file with the IRS

Revenue

10. Contributions, gifts, grants and similar amounts received . . . . . _____
11. Program service revenue including government fees and contracts . . . . . _____
12. Membership dues and assessments . . . . . _____
13. Investment income . . . . . __250_____

14a. Gross amount from sale of assets other than inventory . . . . . _____
14b. Less: cost or other basis and sales expenses . . . . . _____
14c. Gain or (loss) from sale of assets other than inventory . . . . . _____

15. Gaming and fundraising events 15a. Gross income from gaming .. . . . . _____
15b. Gross income from fundraising . . . . . _____

(not including _____ _ of contributions reported on line 10)

15c. Less: direct expenses from gaming and fundraising events . . . . . _____
15d. Net income or (loss) from gaming and fundraising events . . . . . _____

16a. Gross sales of inventory, less returns and allowances . . . . . _____
16b. Less: cost of goods sold . . . . . _____
16c. Gross profit or (loss) from sales of inventory . . . . . _____

17. Other income . . . . . _____

18. **Total revenue** . . . . . _____250____

ANNUAL CHARITY TRANSMITTAL FORM

IRS Form 990-N filers and filers not required to file with the IRS

Expenses

19. Grants and similar amounts paid ..... _____
20. Benefits paid to or for members ..... _____
21. Salaries, other compensation and employee benefits ..... _____
22. Professional fees and other payments to independent contractors 152
23. Occupancy, rent, utilities and maintenance ..... _____
24. Printing, publications, postage and shipping ..... _____
25. Other expenses 10,617

26. **Total expenses** 10,769
27. **Total Program service expenses (included in expenses for lines 19-25)** 10,769

Net Assets

28. Excess or deficit for the year ..... (10,519)
29. Net assets or fund balances at beginning of year 39,416
30. Other changes in net assets or fund balances 5,817
31. Net assets or fund balances at end of year 34,714

Balance Sheet

32. Cash, savings and investments 34,714
33. Land and buildings ..... _____
34. Other assets ..... _____
35. Total assets ..... _____
36. Total liabilities ..... _____
37. **Net assets or fund balances (Total assets - Total liabilities)** 34,714