

**MARIN EMERGENCY RADIO AUTHORITY**

**NEXT GEN RADIO COMMUNICATIONS SYSTEM**

**ALARM SENSOR CONNECTIONS  
REQUEST FOR PROPOSAL**

**May 2024**

## **I. PROJECT SUMMARY**

The Marin Emergency Radio Authority is currently building its Next Gen radio communications system that will be used by first responders throughout Marin County. This work involves the refurbishment or construction of communications sites at various locations.

An important element of the radio system is to be able to remotely monitor the condition of each radio site and send alarms to communications technicians if an unsafe condition exists. Sensors are installed to monitor parameters such as door entry, temperature, smoke, fire, generator status, etc., and report information through a central monitoring system.

Sensors to monitor these conditions have already been provided and connected at some of MERA's communication sites. However, other sites still require that these sensors are procured and connected to the monitoring system. The selected CONTRACTOR will perform this work.

## **II. GENERAL REQUIREMENTS**

### **Schedule**

The installation work described in this document is expected to begin in April 2024 and will continue as quickly as possible until completed. A schedule will be submitted by the CONTRACTOR to MERA for approval within five business days following Notice to Proceed.

### **Reporting Structure**

The CONTRACTOR will report to MERA designee at the County of Marin Radio Shop .

### **Acceptance Criteria**

All work will be inspected by a MERA representative. There will be no additional charge to MERA for re-performance of services, or rework of products and deliverables if found to be unacceptable. Work shall not be deemed "accepted" until all work specifications have been satisfied and an Acceptance Certificate for each site has been signed by MERA and delivered to the CONTRACTOR. Invoices for work performed will not be submitted until the corresponding Acceptance Certificate has been signed.

### **Changes in Scope of Work**

If changes in the scope of work are required, they will be mutually agreed upon and reflected in a change order.

### **Progress Reports**

Progress reports will be required on a daily basis and should identify any delays that would impact the project schedule. Progress reports shall be sent by email.

### **Procurement**

The CONTRACTOR shall furnish all materials, implements, machinery, equipment, tools, supplies, transportation and labor necessary for the full prosecution and completion of the work.

**Warranties and Guarantees**

CONTRACTOR will warrant all services and work for a period of one year. CONTRACTOR will warrant that the services and work will be provided in a workmanlike manner, and that the CONTRACTOR's employees, subcontractors, or agents assigned to provide services have the proper expertise, skills, training, and professional education to perform the services in a professional manner and consistent with applicable industry standards. If defects are found, the CONTRACTOR will promptly correct the defects or replace nonconforming services at their cost. The warranty will begin for each site upon the final acceptance by MERA of all work at that site.

**Payments**

The completion of work at each site location may be invoiced separately or upon total completion. Processing of contractor invoices are subject to MERA's acceptance of the work. MERA will consider alternate schedules for payment but will reserve the right to pay in full per site location after acceptance of the work.

**Prevailing Wage**

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates for Marin County where the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available at the Department of Public Works, and are also available at the State of California Division of Labor Statistics and research web site at <http://www.dir.ca.gov/DLSR/PWD/index.htm>.

**Nondiscrimination**

MERA, and its CONTRACTORS and/or Subcontractors will not discriminate against any individual based on race, color, religion, nationality, sex, age or disability.

**III. DESCRIPTION OF WORK**

Work will be required at the following nine communications sites in Marin County, and site-specific details can be found in Section IV.

1. Coyote Peak – Near 1700 Marshall Petaluma Rd, Petaluma, CA
2. Mill Valley – 329 Sequoia Valley Rd, Mill Valley, CA
3. Mt. Tamalpais – 2001 Ridgecrest Blvd, Mill Valley, CA
4. Muir Beach – Muir Beach Overlook, Muir Beach, CA
5. OTA – Mt. Burdell, Novato, CA
6. Skyview Terrace – Near 70 Skyview Terrace, San Rafael, CA
7. Stewart Point – 315 Paradise Valley Rd, Bolinas, CA
8. Tomales – 28775 Shoreline Hwy, Tomales, CA
9. Wolfback Ridge – 200 Sundial Rd, Sausalito, CA

The CONTRACTOR will perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations.

Site access will be coordinated with MERA. Site access may require an escort. MERA will arrange the escorts and assume the associated costs.

Compliance for fire protection shall be in accordance with California Public Resources Code Sections 4428, 4429, 4430.

#### **IV. SITE SPECIFIC SCOPES OF WORK**

##### **1. Coyote Peak**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

##### **2. Mill Valley**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

**3. Mt. Tamalpais**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

**4. Muir Beach**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE

GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

**5. OTA**

Scope of Work:

- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

- Procure, install, and test a magnetic contact door sensor approved by MERA. Run wires to punch down block.
- Procure, install, and test a hardwired smoke alarm with relay output approved by MERA. Run relay wires to punch down block.
- Connect remote alarms for each HVAC unit to punch down block.

**6. Skyview Terrace**

Scope of Work:

- Connect generator alarms to existing punch down block CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

## **7. Stewart Point**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

## **8. Tomales**

Scope of Work:

-- Connect generator alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall

include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

## 9. Wolfback Ridge

Scope of Work:

-- Connect generator alarms to existing punch down block CONTRACTOR MUST CONSULT WITH GENERATOR MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

GENERATOR HIGH TEMPERATURE  
GENERATOR RUNNING  
GENERATOR OIL LEVEL LOW  
GENERATOR MAN/AUTO  
GENERATOR BATTERY  
GENERATOR LOW FUEL LEVEL  
GENERATOR COMMON FAILURE

-- Connect Automatic Transfer Switch alarms to existing punch down block. CONTRACTOR MUST CONSULT WITH ATS MANUFACTURER REGARDING CORRECT CONNECTIONS. Alarms shall include:

UTILITY POWER AVAILABLE  
UTILITY POWER IN USE  
GENERATOR POWER AVAILABLE  
GENERATOR POWER IN USE

-- Procure, install, and test a magnetic contact door sensor approved by MERA. Run wires to punch down block.

-- Procure, install, and test a hardwired smoke alarm with relay output approved by MERA. Run relay wires to punch down block.

-- Connect remote alarms for each HVAC unit to punch down block.

## V. WIRE INSTALLATION DETAILS

- CONTRACTOR must consult with device manufacturer to determine correct wire to use.
- Alarm wires must be bundled together and secured to walls between 2" and 6" from ceiling. Method for securing wires must be approved by MERA prior to installation.
- Alarm wires must be secured to walls at a distance no greater than 18".
- Alarm / control wiring must be at least 2" from electrical conductors.
- Existing conduit may be used, but only if there are no electrical conductors in the conduit.



