

March 28, 2024

Responses to Arcticom Proposal Review

RFP Section 2.2, Site Selection and 2.3.2 Antenna System Response:

We will use ICY View & Recreational Center with (2) Codan Repeaters per site with a Single Antenna System Combiner Duplexed. We will attach the System Diagram from Telewave for Repeater site at Icy Bay location see Fig. #1 and for the Recreation Center Repeater Site See Fig. #2. Also included is information on the Control Station Combiner that will reduce the number of Antennas needed and also provide less chance of interference using just (1) Antenna. See Fig. # 3

RFP Section 2.3.3, Dispatch Console Systems Response:

Zetron System are connected via ethernet network. Each Dispatch PC's will have (2) ethernet card for redundancy connected to (2) main switches in the system. The Zetron System has (2) Max Central Units function as a server, a Main and a Back-up for redundancy. MAX MRG serves as a Radio Gateway for the M250 which makes the interconnection to the (4) Four Kenwood Control Stations. Each PC position is independent of functionality via MAX Central. In an event one of the PC Dispatch position failed the other PC Dispatch position will perform normally. A System Diagram was provided in the RFP. The control radio stations will have an RFI Control Station combiner with (2) Omni antennas with stand-off bracket that will be mounted on the existing tower in the Nome Police Station. Please see Fig. #4

RFP Section 3.1 Existing Site Improvement Response:

We will be providing (2) post 19" open racks at the radio room in the Police Department, (2) open racks at Icy View site the same room where the existing repeaters are located. (2) open racks at the Rec Center same room on the existing site. We will be providing cable ladders and R56 grounding on all sites. Existing AC power is sufficient for all sites.

RFP Section 3.4 Site Generator Response:

Arcticom has proposed after our site visit a cost effective back up generator that will exceed demand for power backup for the Icy Bay Repeater Site. Arcticom consulted with Nome Power, and the Fire Dept. that also has apparatus located in that facility.

The Police Department and the Recreational Center both have power generations system that power all of the other building functions as well as the Communications located in those two buildings. Arcticom can address our response further if the City deems it necessary.

RFP Section 3.5 DC Power System Response:

The proposed system will run on AC as the main power source with 12VDC Back-up in the event of power failure. UPS for the Max Dispatch System and all PC Dispatch Positions.

RFP Section 4.1.2 Scheduling Response:

Site Survey: Arcticom spent (2) Days in Nome in the Month of January 2024. We went to both Repeater locations, Police Department Dispatch, communication room. We took pictures, talked to staff and made notes as to the problems that the City Police Dept has been dealing with for many years. Completed 2024 January.

Detailed Design Review: Arcticom is providing the city with the design that was asked for. We are providing the city with all the information about the new design that is being asked of Arcticom in this response.

Site Preparation: Arcticom will coordinate with the City and Police Dept IT director to make all necessary add Ons to networking configuration with the Police Dept. Dispatch Center to accommodate the new dispatch console and new equipment next to the working dispatch locations. There is only (1) a dispatcher on shift now, so the two other positions will have room for accessibility and testing to take place in a relatively less stress atmosphere.

The Icy Bay and Rec. Center for the Repeaters are both easy to access and lots of room for adding the new racks with the all-new RF gear installed and ready to be plugged in for quick testing once the new Antennas and coax cable have been mounted and cabling has been run to the new equipment rack.

Factory Acceptance, Testing, System Timeline from the Purchase order accepted to System Cutover and Training:

Equipment Delivery timeline to Nome.

From Purchase order acceptance all equipment will be delivered in a maximum of 8 weeks. We are going to make some assumptions as to those dates to give you a timeline that will be within 30 days one side or the other. PO date accepted April 15, all equipment ordered with two days of receiving the purchase order April 17. All equipment will be in the Arcticom shop no later than June 17. We will Test, Configure, Program, and accept if all equipment. The timeline in our shop is 2 weeks. This puts us at July 1, 2024. We will deliver the equipment to Lynden Marine lines in Anchorage on or before July 2 to meet the freight cutoff for Voyage W4007B scheduled to arrive in Nome mid-July. I am estimating to go with July 18, for purposes of timeline.

All Equipment will be moved to one of Bering Straits Native Companies warehouses in Nome for storage. BSNC is Arcticom parent company based in Nome Alaska. Arcticom should have all the equipment in the Warehouse in Nome within a week of Arriving. Putting the timeline with equipment in Nome and housed by the 25th of July.

Installation and Removal Timelines:

Dispatch Console Installation, Testing and Training and Removal of current equipment Installations of the New Dispatch will begin the week of July 29, 2024.

New Dispatch console and control stations with combiner antenna system installation time from will be 7 days for Installation of the above equipment, Installation of Antennas with standoffs 2 days Testing, Factory Training, and Removal of current equipment, 4 days.

Total Days for Complete Dispatch is 13 days. Completed on or about Aug 15, 2024

RF Repeater System Installations complete, Testing, New equipment installation and cutover, removal.

Icy View - 9 Days Complete on the 25th of August.

Recreation Center – 9 Days Complete on the 5th of Sept.

Mobile Radio Installation and Reinstallation of the new Mobile radios.

7 days to complete installation, Test coverage, and Training users on how to use the equipment. This task will be completed on or before the 15th of September.

RFP Section 4.2 Frequency Coordination and Licensing Response:

There will be a modification of FCC License.

4.5 Staging.

We will stage and test all equipment in our shop in Anchorage and the City Representative will be welcome to see the testing when the system has been fully configured and staged.

5. Warranty, Maintenance and Support.

All equipment will be (3) Year warranty included.

Service warranty additional (2) years to cover (3) years will cost \$25,200.00

6.1 Network Management System.

See Ref; Fig #5 For Specifications sheet.

Apex Site Monitoring over IP

- Site VIEW software license
- Bidirectional power sensor for all repeaters
- Outdoor temp sensor
- Door sensor
- Summit Basic 19" rack unit
- Maintenance terminal + monitor
- Apex Support package (support, remote assistance, update)
- Miscellaneous parts for installation and Labor for Installation.
- **\$ 89,029.00**