

PART 1 – GENERAL

1.1 SYSTEM SUMMARY

- .1 Install the non-locatable personal protection alarm system (PPA) as specified herein. The system will be used to identify personnel under duress in potentially high-risk situations.
- .2 System to consist of, but not be limited to the following components:
 - .1 Rack mounted central server and display
 - .2 Central and remote display software
 - .2 Main RF receiver
 - .3 RF repeaters
 - .4 Personal transmitters
- .3 System to provide full bi-directional RF communications/supervision between receivers, repeaters and personal transmitters and shall report problems to users.
- .4 System software and display to provide the following features and device parameters:
 - .1 Capacity for minimum 1000 unique devices ID's with 32-character user defined labels
 - .2 active or not active device status
 - .3 real-time battery level (with low battery notification)
 - .4 rf signal strength
 - .5 state (alarm, idle, standby)
 - .6 Level of right (admin, user and view only)
 - .7 Device list view
 - .8 Message Screen
 - .9 Configuration table
 - .10 Support for multiple simultaneous alarms
 - .11 Ability to log all Alarms and notifications
- .5 Locate the central display in the LAN room and provide complete with administrator level permissions. Install the remote display software at the operator's console at the reception desk and provide with view only permissions to view all alarms and notifications.
- .6 A duress alarm will be initiated by pressing a button on the portable transmitter. This alarm will be reported to the central display and to a remote display. System to also output alarm signals to an external monitoring agency through integration with the facility's intrusion alarm and security system.
- .7 The system must be able to receive test signals and provide positive or negative feedback to users through the use of a test button on the portable transmitter. This test signal must not generate an alarm or report to any other system or monitoring agency.

1.2 QUALIFICATION OF CONTRACTORS

- .1 Suppliers, vendors, installers and commissioning personnel must be CPIC cleared.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Include, project specific riser diagram, block diagram of complete PPA system indicating locations of all devices.

1.4 QUANTITIES AND SPARES

- .1 Provide receivers and repeaters in quantities to provide adequate coverage in the event that loss or malfunction of any one device.
- .2 Provide 30 portable transmitters.

PART 2 – PRODUCTS

2.1 CENTRAL SERVER

- .1 Rack mounted.
- .2 DUAL CORE Intel i5 processor.
- .3 2GB Ram.
- .4 250GB HDD.
- .5 Ethernet port.
- .6 Four (4) USB 2.0 ports.
- .7 2 Serial Ports
- .8 LCD monitor/Keyboard/Mouse.

2.2 PORTABLE 2-WAY RF TRANSMITTER

- .1 Belt clip.
- .2 Rechargeable lithium battery.
- .3 Multi-purpose indicator light.
- .4 Test button.
- .5 Vibration function.
- .6 Man-down option.
- .7 0-40C operation.

2.3 BI-DIRECTIONAL RF REPEATER

- .1 12Vdc power input.
- .2 Recessed Outlet Box mounted.
- .3 Stainless Steel Coverplate.
- .4 Compliant to IC: 4214A-XBEEPRO.

2.4 STANDARD OF ACCEPTANCE

- .1 Nordicom Securalert System.

PART 3 – EXECUTION

3.1 SITE ASSESSMENT

- .1 Before installation begins, inform the Departmental Representative of any site conditions that may prevent the system from operating satisfactorily.

3.2 SYSTEM INSTALLATION

- .1 Install the system in accordance with the manufacturer's recommended procedures as defined in the manufacturer's documentation. Perform pre-functional testing as required prior to manufacturer calibration.

3.3 SYSTEM CALIBRATION

- .1 Manufacturer trained personnel are to fully commission, program and calibrate the system in accordance with the recommended procedures as defined in the manufacturer's documentation.
- .2 Submit to the facility the configuration settings for the system.

3.4 TRAINING

- .1 Manufacturer's representation is to train the maintenance personnel in the system maintenance procedures as described in the manufacturer's product documentation.

END OF SECTION