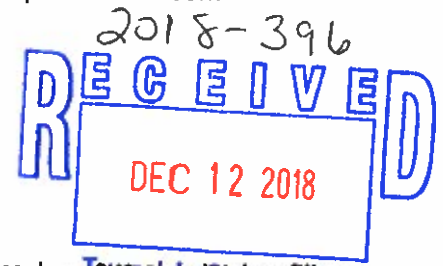


Diana McCracken

From: Elias Oliveri <opra+request-3140-eb04c3b3@requests.opramachine.com>
Sent: Wednesday, December 5, 2018 7:58 PM
To: Diana McCracken
Subject: OPRA request - New Police Radio Dispatch System



Dear Little Egg Harbor Township,

This is a request for public records made under OPRA and the common law right of access. I am not required to fill out an official form. Please acknowledge receipt of this message.

Records requested:

Please provide all documents regarding the Motorola Solutions, Inc. contract for the new radio system (Resolution No. 2018-54)

Yours faithfully,

Elias Oliveri

Please use deliver records electronically via email to the below UNIQUE address for all replies to this request:
opra+request-3140-eb04c3b3@requests.opramachine.com

Is mccracken@leht.com the wrong address for OPRA requests to Little Egg Harbor Township? If so, please contact us using this form:

https://opramachine.com/change_request/new?body=little_egg_harbor_township

Disclaimer: This message and any reply that you make will be published on the internet. Our privacy and copyright policies:

<https://opramachine.com/help/officers>

View this OPRA request & responses online:

https://opramachine.com/request/new_police_radio_dispatch_system

Please note that in some cases publication of requests and responses will be delayed.

If you find this service useful as an OPRA custodian, please ask your web manager to link to us from your organisation's website.

RESOLUTION NO. 2018 – 54

**RESOLUTION OF THE TOWNSHIP OF LITTLE EGG
HARBOR, COUNTY OF OCEAN, STATE OF NEW
JERSEY, AUTHORIZING AN AGREEMENT WITH
MOTOROLA SOLUTIONS, INC. FOR POLICE DISPATCH
SYSTEM**

WHEREAS, the Township of Little Egg Harbor, pursuant to N.J.S.A. 40A:11-12a and N.J.A.C. 5:34-7.29(c), may by resolution and without advertising for bids, purchase any goods or services under the State of New Jersey Cooperative Purchasing Program for any State contracts entered into on behalf of the State by the Division of Purchase and Property in the Department of the Treasury; and

WHEREAS, the Police Department of the Township of Little Egg Harbor has the need on a timely basis to purchase goods or services utilizing State contracts; and

WHEREAS, the Township of Little Egg Harbor intends to enter into a contract with Motorola Solutions, Inc. through this resolution and properly executed contracts, which shall be subject to all of the conditions applicable to current State contracts; and

WHEREAS, the amount of the contract to be awarded under this resolution is \$1,200,000.00; and

WHEREAS, Township of Little Egg Harbor intends to enter into a contract with Motorola Solutions, Inc., under State Contract # 83909 for software for the Police Department.

NOW, THEREFORE, BE IT RESOLVED, by the governing body of the Township of Little Egg Harbor, County of Ocean, State of New Jersey, as follows:

1. That the governing body does hereby authorize an agreement with Motorola Solutions, Inc., for a new Police Radio Dispatch System for the Little Egg Harbor Township Police Department under New Jersey State Contract # 83909.
2. That the Mayor and Township Clerk are hereby authorized to execute a contract Motorola Solutions, Inc., in accordance with the terms of the New Jersey State contract.
3. That a certificate of availability of funds executed by the Chief Financial Officer is annexed hereto. The following are the line item appropriations or ordinances which constitute the availability of funds for this contract:
C-04-55-908 - 016
4. That a certified copy of this resolution, together with a copy of the contract between the parties, shall be forwarded to the Chief Financial Officer and to Motorola Solutions, Inc.

Motion to Approve: Schlick Second: Crea

Roll Call:

Crea
Gormley
Kehm
Schlick
Stevens

yes
yes
yes
yes
yes

CERTIFICATION

I, **DIANA K. MCCrackEN**, RMC, Municipal Clerk of the Township of Little Egg Harbor, do hereby certify that the foregoing resolution was duly adopted by the Little Egg Harbor Township Committee at a meeting held on the 11th day of **January, 2018**.

Diana K. McCracken RMC
DIANA K. MCCrackEN, Township Clerk
Little Egg Harbor Township

CERTIFICATE OF AVAILABILITY OF FUNDS

I, **GARRETT LOESCH**, Chief Financial Officer for the Township of Little Egg Harbor, do hereby certify that adequate funds are available for a contract with Motorola Solutions, Inc. for a new Police Radio Dispatch System under New Jersey State Contract #83909 in an amount of \$1,200,000.00.

The funds which are available for this contract are found in the following line item appropriations or ordinances: C-04-55-908-016



GARRETT LOESCH, Chief Financial Officer
Township of Little Egg Harbor



MOTOROLA SOLUTIONS

Motorola Solutions, Inc.
123 Tice Blvd, Suite 202
Woodcliff Lake, NJ 07677

Telephone: +1 201.949.5500
Fax: +1 201.949.5799

August 29, 2017

Chief Richard Buzby
Little Egg Police Department
655 Radio Road
Little Egg Harbor, NJ 08087

Dear Chief Buzby:

Motorola Solutions, Inc. (Motorola) and Allcomm Technologies, Inc, are pleased to present our proposal for a fully-engineered, installed, and optimized digital, encrypted APCO25 700 MHz radio system with full dispatch.

Motorola will be the Prime Contractor providing all of the materials and labor required by the specification to deliver the proposed state-of-the-art APCO25 digital and encrypted system with dispatch. Not only do we offer the most technically advanced and *mission critical* radio system products in the industry, with a Motorola solution, Little Egg Police Department can have *confidence* that the system will be installed *on budget* and *as proposed*.

By selecting Motorola, you gain the benefit of our 80 year investment in our people and product development. Our qualifications and proven experience have allowed us to implement and integrate some of the largest and most complex networks in the world--on-time with solid, reliable results. Motorola understands the complexities of implementing a critical public safety system that supports the Little Egg Police Department.

This proposal is covered under the terms and conditions of the current New Jersey State Contract number 83909.

Motorola and Allcomm's commitment to Quality and Total Customer Satisfaction are the basis for our excellent customer relationships. We look forward to continuing our relationship as partners in communications with Little Egg Police Department while implementing your new 700 MHz APCO25 compliant, encrypted radio communications system.

If you have any questions, please contact Dave Cook, President of Allcomm or John Santaniello, Senior Account Manager Motorola Solutions at (732) 462-9733.

Sincerely,
Motorola Solutions, Inc.

Roy Kirchner
MSSSI Vice President



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SYSTEM DESCRIPTION

OVERVIEW

ASTRO® 25 is the most widely used Project 25, Mission-Critical communication network for public safety agencies. Installed worldwide, ASTRO 25 solutions meet and exceed requirements for day-to-day operations, as well as emergency response in the most demanding situations. ASTRO 25 is a wireless platform that combines uncompromising, real-world performance and the legendary reliability of Motorola Solutions, Inc. (Motorola).

Motorola's proposed solution for the Township of Little Egg Harbor is our ASTRO 25 platform, the foundation of the Mission-Critical portfolio. ASTRO offers a Project 25, standards-based Internet Protocol (IP) modular solution.

Included in this proposal is the following design:

- ASTRO 25 Redundant Conventional K Core.
- Three (3) Operator Positions MCC7500 Consoles located at the PD Dispatch.
- Four (4) Channels, 700MHz Voting System with comparators and base stations.
- Four (4) GTR 8000 Base Stations at the main Transmit and Receive site, Frog Pond.
- Four (4) GPW 8000 Receivers PD Headquarters and Bombing Range.
- Microwave site connectivity
- Fifty (50) APX 6000 Portables
- Thirty (30) APX 6500 Mobiles
- One (1) Key Variable Loader KVL
- Two (2) APX 7500 Dual Band Control Stations interfaced to the Consoles.





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Little Egg Harbor High Level Diagram:

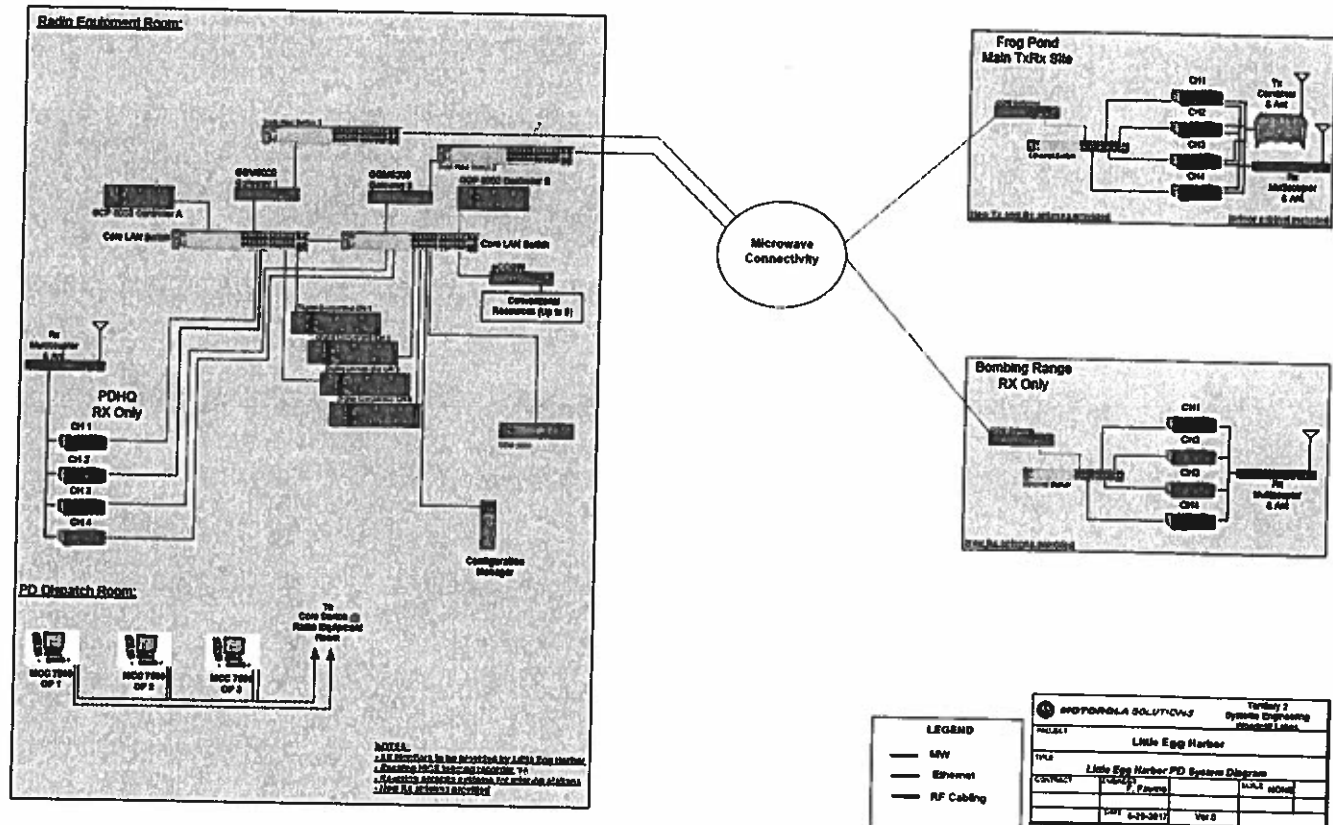


Figure Error! No text of specified style in document.-1: Little Egg Harbor PD High Level Diagram

ASTRO 25 INFRASTRUCTURE

The ASTRO 25 conventional system is comprised of a core site, a MCC 7000 series console system, and conventional ASTRO 25 RF sites. A description of these subsystems and their equipment are discussed in the sections below.

Core Site

The Core site is the central point for all system traffic. Call processing and system management occur at the Core site. The Voice call processing for is performed by the Conventional Site Controller. The Conventional Site Controller maintains communication between the consoles, RF Sites and subscriber radios.

Conventional Core Site Components

The ASTRO 25 Conventional Core is a scalable and virtualized core which provides an adaptable and affordable platform for mission critical wireless communications. The Conventional Core is targeted at small capacity conventional customers who require an ASTRO25 conventional only system. The Conventional Core allows customers to interface channels to an IP based MCC 7500 Console,





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provides a migration path for customers with fielded Motorola Conventional solutions, and allows the flexibility for customers to join a larger system in the future while maximizing their equipment investment.

GCP 8000 Conventional Site Controller

The GCP 8000 Site Controller provides mission critical call processing and mobility management throughout the ASTRO 25 Conventional System. The GCP 8000, located at the Core, interfaces via the Ethernet LAN switch, providing access to the packet switched network via the Core Gateway. The GCP 8000 is equipped with a single controller module. The GCP 8000 is capable of supporting the full set of dispatch consoles and conventional gateways.



GCP 8000

The GCP 8000 is responsible for:

- Fault management for the GCP 8000.
- Processing conventional call requests from the conventional gateway or from the Console.
- Assigning the multicast groups for conventional calls.
- Issuing a call grant to the requestor.
- Issuing a beginning of mobile transmission to the consoles (with alias information).
- Arbitration between multiple radios and/or consoles vying for the same channel.
- Processing an end of call.
- Acknowledge subscriber signaling calls (e.g., Emergency).
- Distributes subscriber signaling to affiliated consoles.
- As well as other conventional voice call processing.

The GCP 8000 is arranged in a redundant configuration providing the reliability required for mission critical communications.

GGM 8000 Gateway

The core gateways (Figure Error! No text of specified style in document.-2) are used for devices that forward packets beyond their local LAN. The gateways perform the routing control of audio, data, and network management traffic, replicating packets while achieving the fast access levels required by real-time voice systems. The Core site audio, data, control, and network management equipment interfaces to the dispatch sites, via the LAN switch through the GGM 8000 Core Gateway.



Figure Error! No text of specified style in document.-2: GGM 8000 Gateway

Redundant gateways have been provided in this system design.





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LAN Switches

The Core site equipment includes a set of LAN switches. Two switches are connected via 100 Mb Ethernet trunks. The LAN switches aggregate all the Ethernet interfaces for all servers, clients, and routers at the core.

Redundant LAN switches have been provided in this system design.

GGM 8000 Conventional Channel Gateway

Enhanced Conventional Channel Gateways (ECCGWs) (Figure Error! No text of specified style in document.-3) are used in the MCC 7000 Series Dispatch Consoles to connect the dispatchers to analog or digital conventional channels in their system.

With the GGM 8000-based ECCGW provided, up to eight (8) conventional channels can be connected with any mixture of analog, MDC 1200 digital, 2W or 4Wire.



Figure Error! No text of specified style in document.-3: GGM 8000 Conventional Channel Gateway

ASTRO 25 Component Descriptions

Each site type in an ASTRO 25 system contains various components. Components included in this system design are described in this section.

GCM 8000 Comparator

The GCM 8000 Comparator ensures the broadcast of the best possible voice signal by combining the best parts of a single signal that has been received by multiple sites.

The comparator features a digital voting methodology: Frame Diversity Reception. The comparator selects the data frame or signals with the lowest Bit Error Rate (BER) and forwards it. By using the best pieces of each input signal, the result is the best possible composite signal. Four (4) GCM comparators have been included with this proposal in order to support the new digital channels.

GTR 8000 Site Repeater/Base Radio

The GTR 8000 Base Radio consists of a transceiver module, power amplifier module, fan module, and power supply. The transceiver module includes the functionality for the exciter, receiver, and station control. The base radio software, configuration, and network management, as well as inbound/outbound traffic handling, are performed through this transceiver module. On-board serial and Ethernet ports are located on this module for local servicing via CSS. The power amplifier module amplifies the low-level modulated RF signal from the transceiver module and delivers the amplified signal on the path to the transmit antenna.



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RF Site Gateway

The Site Gateway provides an interface that handles all of the IP Network Management traffic between the Core Site and the RF Site. The Site Gateway provides the following:

Media conversion – the gateway converts Ethernet to the selected transport medium.

Traffic prioritization – the gateway applies a prioritization marking to the packets leaving the site.

Fragmentation – the gateway fragments large IP packets per industry standards.

Site LAN Switch

The site LAN Switch provides a LAN interface for site equipment and a LAN port for the site gateway. Through the switch, the service technicians gain access to service the site, and also access the system's Graphical User Interface (GUI).

Key Variable Loader (KVL)

The KVL 4000 is a two-piece handheld key fill device (PDA and security adaptor) that allows customers to create, store, and deliver encryption keys, authentication keys, and algorithms into their security compatible radios, devices, and other secure communication infrastructure equipment. The KVL (Key Variable Loader) is required to load keys for all secure equipped products (subscriber and infrastructure) containing AES and ADP cryptographic algorithms.

THE MCC 7000 SERIES DISPATCH

The MCC 7000 series standard features offers the Township of Little Egg Harbor state-of-the-art communications, console management and configuration functionality, dispatch operation, and communications security.

The proposed solution offers the Township of Little Egg Harbor three (3) MCC 7500 located at the PD dispatch center. Motorola is including operator position console software and accessories; Little Egg Harbor PD will supply the monitors for all console positions.

Operator Position Components

MCC 7500 operator positions connect directly to the radio system's IP transport network without gateways or interface boxes. Audio processing and switching intelligence for dispatch are performed within each software-based operator position, without additional centralized electronics. The following equipment has been included with the two console flavors:

MCC 7500 (Per Operator Positions)

- Qty One (1) Voice Processing Units VPM.
- Qty One (1) HP workstation.
- Qty two (2) Desktop Speakers.
- Qty One (1) Gooseneck Microphones.
- Qty One (1) Headset Jacks.
- Qty One (1) Foot Switches.





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Qty One (1) Little Egg Harbor supplied monitors.

These accessories are included for the two main dispatch operator positions. The third operator positions do not include all accessories.

MCC 7500 Operator Accessories

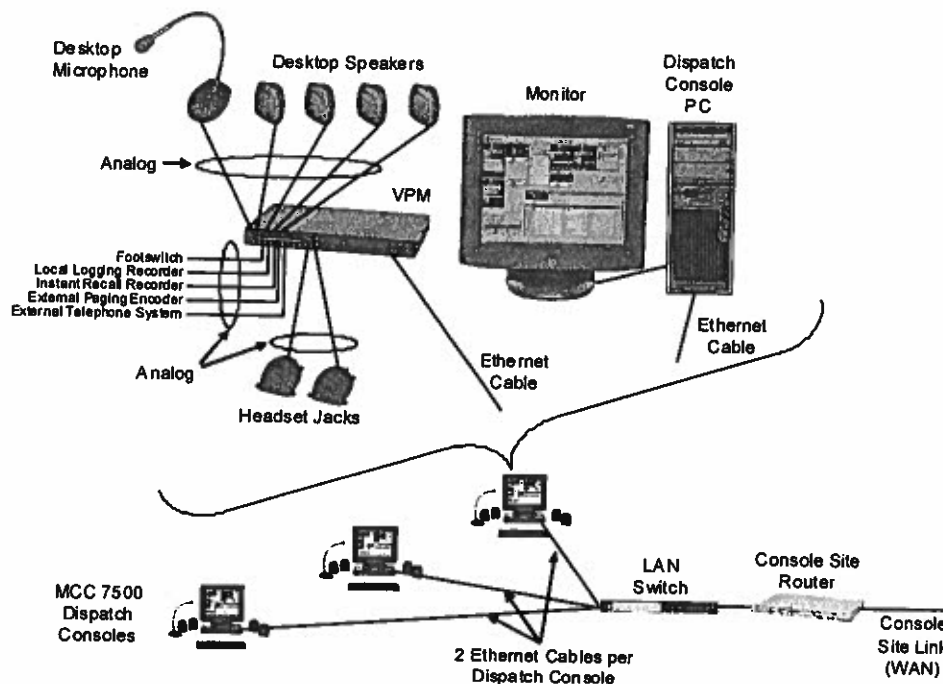


Figure Error! No text of specified style in document.-4: MCC 7500 Operator Accessories

Auxiliary Inputs and Outputs

An Auxiliary Input/Output server enables console operators to control and monitor external devices, such as doors and lights, from the console user interface. Multiple dispatch consoles anywhere in the network may monitor and control the same relay output and/or external inputs. Changes are indicated across all dispatch consoles simultaneously. Customizable graphic icons are also used to provide a visual indication of both the function and state of external inputs.

The dispatch consoles and RTUs communicate with each other across the radio system's IP transport network. Individual relay outputs can be configured so that they require a safety switch to be pressed before they respond to any commands from the dispatch console user.

Configuration Management Applications

The Configuration Manager is used to configure the following equipment in an ASTRO 25 system: MCC 7500 Consoles, ASTRO 25 conventional channel gateways (CCGW), as well as alias information, channel table information, and the main/alternate table for the GCP 8000.



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The Configuration Manager application runs on a Microsoft Windows operating system (OS) and can cohabitate on a Console operator position (OP) or can run on a dedicated PC. There should be only one Configuration Manager (CM) that is connected and running continuously and can only be used from the core.

A data versioning/synchronization scheme using the SNMPv3 protocol is implemented between the CM and GCP 8000. The Configuration Manager will provide full and delta configuration downloads with progress status and configuration history status.

ASTRO 25 Conventional System Failure Mode Analysis

The redundant conventional core configuration includes redundant GCP 8000 Conventional Site Controllers, redundant core gateways, two LAN switches, and two optional backhaul switches. Both GCP 8000s are active while in operation. The MCC 7500 Consoles and CCGWs prefer GCP 8000 "A" over GCP 8000 "B" and will continuously attempt to obtain communications with GCP 8000 "A". However, if a Console or CCGW cannot obtain communications with GCP 8000 "A", the console and CCGW will attempt to obtain communications with GCP 8000 "B". Once the GCP 8000 "A" is restored, the consoles and CCGWs will revert back to GCP 8000 "A".

System Connectivity

Motorola has provided MNI 18GHz Proteus MX microwave radios in a split mount configuration as the best suited solution for this project. The Proteus MX is designed with 100% redundancy of all traffic and overhead channels and with automatic switchover. This makes it the perfect choice for Public Safety, Government, Utility, and Critical Infrastructure networks.

Using Microwave Networks offers the following benefits:

- Microwave Networks designs and manufactures Microwave radios specifically for the Public Safety industry, understanding that reliability is the number one requirement in every public safety system.
- Microwave networks does all of its manufacturing, staging, engineering, and support in Texas for convenience and expedited equipment delivery and support to the County.
- 12 Mbps Ethernet capacity at 99.999+% availability
- Native Ethernet radios
- Fully redundant hardware including the control plan, power supplies, fans
- Incredibly flexible QoS configurations, allowing for a great deal of flexibility with regards to providing for varying needs
- Proven backbone reliability for P25 Land Mobile Radio Systems
- We have chosen to use ODU Radio Frequency units, which will be mounted behind the antenna, using coaxial cable to connect to the Signal Processing Unit (SPU) indoors.

Coverage

Coverage commitment requirement has not been included with this proposal. Maps included are to be used for informational purposes only. The final system coverage will be depicted by the system as built; this includes Frequencies Licenses, Effective Radiated Power (ERP) and antenna heights. Motorola is not responsible for any IM, Co-Channel or any interference issues.





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List of Assumptions

Below please find a list of assumptions Motorola has made in preparing this proposal. No special considerations have been taken into account for customer-specific cutover requirements. The Township of Little Egg Harbor and Motorola will need to verify all assumptions or seek alternate solutions in the case of invalid assumptions during the Contract Design Review (CDR) phase of the project.

Any required system interconnections not specifically outlined here will be provided by the Township of Little Egg Harbor.

Any site/location upgrades or modifications not specifically detailed within this proposal are the responsibility of the Township of Little Egg Harbor.

Existing Little Egg Harbor furniture at the PD will be re-used with the new dispatch consoles positions or Little Egg Harbor will supply and install new furniture. That cost is NOT in this proposal.

The Township of Little Egg Harbor will supply all monitors for the Console Operator Positions. Existing site and equipment location will have sufficient space available for the system described. It is assumed that the existing AC power panels located at the Township of Little Egg Harbor equipment rooms can handle the load of the equipment being added.

Where necessary, the Township of Little Egg Harbor will provide a dedicated delivery point, such as a warehouse, for receipt, inventory, and storage of equipment prior to delivery to the sites.



Radio Equipment Room:



RF Cabling

 MOTOROLA SOLUTIONS	Territory 2 Systems Engineering Woodcreek Lakes		
	PROJECT		
TITLE		Little Egg Harbor PD System Diagram	
CONTRACT	ENGINEER F. Paulino	SCALE	NONE
DATE		8-22-2017	Ver 0



STATEMENT OF WORK

CONTRACT

Contract Award (Milestone)

The Customer and Motorola execute the contract and both parties receive all the documentation.

Contract Administration

Motorola Responsibilities:

Motorola, and its partner, Allcomm, will assign a Project Manager, as the single point of contact with authority to make project decisions.

Assign resources necessary for project implementation.

Set up the project in the Motorola information system.

Schedule the project kickoff meeting with the Customer.

Customer Responsibilities:

Assign a Project Manager as the single point of contact responsible for Customer-signed approvals.

Assign other resources necessary to ensure completion of project tasks for which the Customer is responsible.

Completion Criteria:

Motorola internal processes are set up for project management.

Both Motorola and the Customer assign all required resources.

Contract design review is scheduled.

CONTRACT DESIGN REVIEW

Review Contract Design

Motorola Responsibilities:

Meet with the Customer project team.

Ensure key project team participants attend the meeting.

Introduce all project participants attending the meeting.

Review the roles of the project participants to identify communication flows and decision-making authority between project participants.

Review the teams' interactions (Motorola and the Customer), meetings, reports, milestone acceptance, and the Customer's participation.





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- Review the operational requirements and the impact of those requirements on various equipment configurations.
- Establish a defined baseline for the system design and identify any special product requirements and their impact on system implementation.
- Review the System Design, Statement of Work, Project Schedule, and Acceptance Test Plans, and update the contract documents accordingly.
- Discuss the proposed Cutover Plan and methods to document a detailed procedure.
- Submit design documents to the Customer for approval. These documents form the basis of the system, which Motorola will manufacture, assemble, stage, and install.
- Prepare equipment layout plans.
- Conduct (updated) site evaluations to capture site details of the system design and to determine site readiness. Determine each site's ability to accommodate proposed equipment based upon physical capacity. Prepare Site Evaluation Report that summarizes findings of above-described site evaluations.

Customer Responsibilities:

- The Customer's key project team participants attend the meeting.
- Make timely decisions, according to the Project Schedule.

Completion Criteria:

- Complete Design Documentation, which may include updated System Description, Equipment List, system drawings, or other documents applicable to the project.
- Incorporate any deviations from the proposed system into the contract documents accordingly.
- The system design is "frozen" in preparation for subsequent project phases such as Order Processing and Manufacturing.
- A Change Order is executed in accordance with all material changes resulting from the Design Review to the contract.

Design Approval (Milestone)

The Customer executes a Design Approval milestone document.

ORDER PROCESSING

Process Equipment List

Motorola Responsibilities:

- Validate Equipment List by checking for valid model numbers, versions, compatible options to main equipment, and delivery data.
- Create equipment orders.
- Reconcile the equipment list(s) to the Contract.
- Procure third-party equipment if applicable.

Customer Responsibilities:

- Approve shipping location(s).





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Complete and provide Tax Certificate information verifying tax status of shipping location.

Completion Criteria:

Verify that the Equipment List contains the correct model numbers, version, options, and delivery data.

Trial validation completed.

Bridge the equipment order to the manufacturing facility.

MANUFACTURING

Manufacture Motorola Fixed Network Equipment

Motorola Responsibilities:

Manufacture the Fixed Network Equipment (FNE) necessary for the system based on equipment order.

Customer Responsibilities:

None.

Completion Criteria:

FNE shipped to the field or the staging facility.

Manufacture Non-Motorola Equipment

Motorola Responsibilities:

Manufacture (third-party equipment suppliers) non-Motorola equipment necessary for the system based on equipment order.

Customer Responsibilities:

None.

Completion Criteria:

Ship non-Motorola manufactured equipment to the field or the staging facility.

Manufacture Motorola Subscribers

Motorola Responsibilities:

Manufacture the subscribers necessary for the system, based on equipment order and project schedule.

Customer Responsibilities:

None.



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Completion Criteria:

Subscribers (mobile or portable radios) shipped to the field.

Ship to Staging (Milestone)

Ship all equipment needed for staging to Motorola's factory staging facility [Customer Center for Solutions Integration (CCSi)].

Stage System

Motorola Responsibilities:

Set up and rack the system equipment.

Cut and label cables according to the approved CDR documentation.

Label the cables with to/from information to specify interconnection for field installation and future servicing needs.

Complete the cabling/connecting of the subsystems to each other ("connectorization" of the subsystems).

Power up, program, and test all staged equipment.

Load application parameters on all equipment according to input from Systems Engineering.

Complete programming of the Equipment.

Inventory the equipment with serial numbers and installation references.

Complete system documentation.

Customer Responsibilities:

Provide information on existing system interfaces as may be required.

Completion Criteria:

System staging completed and ready for testing.

Perform Staging Acceptance Test Procedures

Motorola Responsibilities:

Test and validate system software and features.

Functional testing of standard system features.

Power-up site equipment and perform standardized functionality tests.

Perform system burn-in 24 hours a day during staging to isolate and capture any defects.

Customer Responsibilities:

None.

Ship Equipment to Field

Motorola Responsibilities:

Pack system for shipment to final destination.





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Arrange for shipment to the field.

Customer Responsibilities:

None.

Completion Criteria:

Equipment ready for shipment to the field.

CCSi Ship Acceptance (Milestone)

All equipment shipped to the field.

Develop Templates

Motorola Responsibilities:

Motorola assists the Customer in developing up to quantity three (3) subscriber templates and up to two (2) console templates.

Once all templates and client software is tested and approved by the Customer, Motorola requests written approval of template acceptance.

Customer Responsibilities:

Participate in development of templates.

Provide written approval of templates.

Completion Criteria:

Templates completed and approved by the Customer.

Ship Acceptance (Milestone)

All equipment shipped to the field.

CIVIL WORK FOR THE CUSTOMER-PROVIDED FACILITIES

Motorola Responsibilities:

Provide electrical requirements for each equipment rack to be installed in the Customer-provided facilities.

Provide heat load for each equipment rack to be installed in the Customer-provided facilities.

Customer Responsibilities:

If applicable and based on local jurisdictional authority, the Customer will be responsible for any installation or up-grades of the Critical Operation Power Systems in order to comply with NFPA 70, Article 708.

Secure site lease/ownership, zoning, permits, regulatory approvals, easements, power, and Telco connections.





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- Provide clear and stable access to the sites for transporting electronics and other materials. Sufficient site access must be available for trucks to deliver materials under their own power and for personnel to move materials to the facility without assistance from special equipment.
- Supply adequately sized electrical service, backup power (UPS, generator, batteries, etc.) including the installation of conduit, circuit breakers, outlets, etc., at each equipment location. Provide AC power (dedicated 20A, AC outlets - simplex with ground) for each major piece of equipment within 6 feet of the location of the Motorola-supplied equipment, including the associated electrical service and wiring (conduit, circuit breakers, etc.).
- Provide adequate HVAC, grounding, lighting, cable routing, and surge protection (also, among existing and Motorola-provided equipment) based upon Motorola's Standards and Guidelines for Communication Sites (R56). Ceiling (minimum 9 feet) and cable tray heights (minimum 8 feet) in the equipment rooms in order to accommodate 7-foot, 6-inch equipment racks.
- Provide floor space and desk space for the System equipment at the Customer-provided facilities. Each rack shall be provided a minimum of 24-inch x 24-inch footprint with 36-inch clearance in the front and back.
- Relocate existing equipment, if needed, to provide required space for the installation of Motorola-supplied equipment.
- Bring grounding system up to Motorola's R56 standards and supply a single point system ground, of 5 ohms or less, to be used on all FNE supplied under the Contract. Supply grounding tie point within 10 feet from the Motorola-supplied equipment.
- Provide all necessary wall or roof penetrations on existing buildings for antenna coax and microwave waveguide (if applicable) for main transmitter antennas and microwave radios.
- Provide obstruction-free area for the cable run between the demarcation point and the communications equipment.
- Resolve any environmental issues including, but not limited to, asbestos, structural integrity (rooftop, water tank, tower, etc.) of the site, and any other building risks. (Resolve environmental or hazardous material issues).
- Arrange for space on the tower for installation of new antennas at the proposed heights.
- Perform structural analysis of existing tower and rooftops as required to confirm that the structure is capable of supporting proposed and future antenna loads.
- Supply all permits as contractually required.
- Supply interior building cable trays, raceways, conduits, and wire supports.
- Supply engineering and drafting as required for modifications to existing building drawings for site construction.
- Pay for usage costs of power and generator fueling, both during the construction and installation effort, and on an ongoing basis.
- Complete all customer deliverables in accordance within the approved project schedule.

Completion Criteria:

All sites are ready for equipment installations in compliance with Motorola's R56 standards.



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CIVIL WORK (ANTENNA INSTALLATION)

PD Tower

Motorola Will:

Site Engineering

Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).

Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Suffolk County. NOTE: This task does not include structural measurement survey, materials testing, geotechnical investigation, and/or other field investigation to acquire the data. If applicable, these tasks will be noted separately in the SOW.

Provide tower climbing and tower mapping services to collect information about structural members and existing equipment.

Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Antenna and Transmission Line Installation

Install 1 antenna(s) for the RF system.

Perform sweep tests on transmission lines.

Frog Pond

Motorola Will:

Site Engineering

Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).

Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Suffolk County. NOTE: This task does not include structural measurement survey, materials testing, geotechnical investigation, and/or other field investigation to acquire the data. If applicable, these tasks will be noted separately in the SOW.

Provide tower climbing and tower mapping services to collect information about structural members and existing equipment.

Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Antenna and Transmission Line Installation

Install 2 antenna(s) for the RF system.

Perform sweep tests on transmission lines.





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Bombing Range

Motorola Will:

Site Engineering

Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).

Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Suffolk County. NOTE: This task does not include structural measurement survey, materials testing, geotechnical investigation, and/or other field investigation to acquire the data. If applicable, these tasks will be noted separately in the SOW.

Provide tower climbing and tower mapping services to collect information about structural members and existing equipment.

Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Antenna and Transmission Line Installation

Install 1 antenna(s) for the RF system.

Perform sweep tests on transmission lines.

Customer Responsibilities (applicable to all sites):

If required, prepare and submit EME plans for the site (as a licensee) to demonstrate compliance with FCC RF Exposure guidelines. [Note: Should the customer desire guidance with this task, Motorola is able to recommend resources. Additionally, Appendix A of Motorola's Standards and Guidelines for Communication Sites (R56) discusses Electromagnetic Energy and provides a basic methodology for structuring an FCC compliant program. If the customer does not have a copy of Motorola's Standards and Guidelines for Communication Sites (R56) v 2005, one will be provided.]

Assist Motorola with permitting for sites as owner/lessee.

As applicable, coordinate, prepare, submit, and pay for all required permits and inspections for the work that is the Customer's responsibility.

Provide and pay for all zoning approvals that might be required.

Pay for all utility connection, pole or line extensions, and any easement or usage fees.

Review and approve site design drawings within 7 calendar days of submission by Motorola or its subcontractor(s). Should a re-submission be required, the Customer shall review and approve the re-submitted plans within 7 calendar days from the date of submittal.

Pay for the usage costs of power, leased lines and generator fueling both during the construction/installation effort and on an on-going basis.

Pay for application fees, taxes and recurring payments for lease/ownership of the property.

Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by Motorola.

As applicable (based on local jurisdictional authority), the Customer will be responsible for any installation or up-grades of the electrical system in order to comply with NFPA 70, Article 708

Secure clear and unencumbered title, MOU, or Lease Agreement with the property owner.





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Provide property deed or lease agreement, and boundary survey, along with existing as-built drawings of the site and site components to Motorola for conducting site engineering.

Provide a right of entry letter from the site owner for Motorola to conduct field investigations.

Provide clear and stable access road to the site for heavy-duty construction vehicles, cement trucks and cranes. Sufficient space must be available at the site for these vehicles to maneuver under their own power, without assistance from other equipment.

At all sites where Motorola is proposing to install new communication equipment within existing shelter/rooms and new antennas on existing towers or other antenna mounting structures (i.e. water tanks, roof-tops, etc.) the Customer is responsible for the following;

1. Providing engineered sealed as-builts of the existing structures/foundations as required for Motorola to conduct structural analysis. To include geotechnical reports.
2. Providing and paying for any/all structural improvements to existing antenna mounting structures (i.e., towers, roof-tops and water tanks) as might be required to support the new antenna/cable loading being proposed. Includes improvements to existing foundations if required.
3. Conducting electrical load studies at all sites (where existing remaining electrical capacity is unknown) as required to ensure that the sites have sufficient electrical capacity to support the electrical loading of the new equipment being proposed.
4. Providing for and paying for upgrades to existing sites electrical service as might be required to the electrical loading of the equipment proposed by Motorola
5. Ensuring that existing sites generator/UPS systems have sufficient capacity to support the electrical loading of the new equipment being proposed.
6. Ensuring that existing antenna mounting structures (Towers, Roof-tops and Water Tanks) have space available at the heights requested for installation of new antennas proposed. Customer is responsible for the removal or relocation of existing antennas as might be required to support the new antennas being proposed.
7. Providing support facilities for the antenna cables (tower cable ladder, entry ports, waveguide/ice bridge, cable chaseway) from the antenna mounting locations to the equipment rooms/shelters and within the equipment rooms and shelters.
8. Provide space compliant with Motorola R56 Standards/Guidelines within shelters/equipment rooms for installation of new equipment.
9. Providing HVAC sufficient in size to handle the heat load of the new communication equipment to ensure that operating temperatures are compliant with Motorola R56 requirements.
10. Providing surge/lightening protection compliant with Motorola R56 requirements to ensure proposed communication equipment is adequately protected.
11. Providing back up power (UPS, generator) with sufficient capacity to support the new equipment being proposed.
12. Providing UPS/Generator supported dedicated circuits/outlets (20A, 120V, 1 Phase) for providing power to the new equipment being proposed. Each critical piece of equipment to be on a dedicated breaker/circuit. New circuits to be wired to outlets above the equipment racks (within 6' of racks) to be supplied by Motorola or to rack mounted outlet strips to be supplied by Motorola.
13. Ensuring that ceiling and cable tray heights in the shelters and equipment rooms can support 7-1/2' racks and provide overhead clearance compliant with R56.
14. Upgrade the site existing grounding (interior and exterior) and transient voltage suppression systems to Motorola's current R56 Standards, and supply a single point system ground, of ten





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- (10) ohms or less, to be used on all fixed equipment supplied under this proposal. Supply a grounding tie point within ten (10) feet of the-Motorola-supplied equipment.
15. If required, remove or relocate any existing facilities, equipment, and utilities to create space for new site facilities and equipment.
16. If required, provide any physical improvements (walls, roofing, flooring, painting, etc.) necessary to house the equipment in the existing rooms or shelters.
- Provide support and entry facilities that might be required for interconnectivity of equipment between rooms, shelters, etc.
- As applicable (based on local jurisdictional authority), the Customer will be responsible for any installation or up-grades of the electrical system in order to comply with NFPA 70, Article 708
- At sites where cables are routed underground in conduits from rooms/shelters to towers, ensure that there is a spare conduit with a pull string available for pulling the new cables to be supplied/installed by Motorola. Or for ensuring that there is sufficient space/pull strings in shared conduits for pulling new/additional cabling. Shall include ensuring that all existing underground conduits are free of debris and water (and will remain water tight).

Assumptions

- All work that is the responsibility of Motorola will be performed by Motorola preferred vendors/contractors.
- At existing sites, the Customer is responsible for all site development as delineated in the Customer Responsibilities above.
- All work is assumed to be done during normal business hours as dictated by time zone (Monday thru Friday, 7:30 a.m. to 5:00 p.m.).
- One-time mobilization costs for the construction crews. Any remobilization due to interruptions/delays that are out of Motorola's control will result in additional costs.
- Temporary site trailers (tower, housing, COWS, and generator) have not been included for cutovers. Cutover logistics will be determined on a case-by-case basis; any additional costs will be negotiated prior to the execution of cutover tasks.
- All recurring and non-recurring utility costs [including, but not limited to, generator fuel (except first fill), electrical, Telco] will be borne by the Customer or site owner.
- Pricing has been based on National codes such IBC or BOCA. Local codes or jurisdictional requirements have not been considered in this proposal.
- Hazardous materials are not present at the work location. Testing and removal of hazardous materials, found during site investigations, construction or equipment installation will be the responsibility of the customer.
- A maximum of 30 days will be required for obtaining approved building permits from time of submission.
- No improvements are required for concrete trucks, drill rigs, shelter delivery, work vehicles, and crane access.
- If extremely harsh or difficult weather conditions delay the site work for more than a week, Motorola will seek excusable delays rather than risk job site safety.
- As applicable (based on local jurisdictional authority), the Customer will be responsible for any installation or up-grades of the electrical system in order to comply with NFPA 70, Article 708
- The existing ground system and soil resistivity at the site is sufficient to achieve resistance of 10 ohms or less. Communication site grounding/grounding improvements will be designed and installed per Motorola's R56 standards.
- AM detuning or electromagnetic emission studies will not be required.





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Protective grating over microwave dishes or the communications shelter has not been included in this proposal.

Structural and foundation drawings of the antenna support structure will be made available to preclude the need for ultrasonic testing or mapping of existing tower structural members.

Lead paint testing of existing painted towers has not been included.

On the existing tower, the antenna locations for the proposed antenna system design will be available at the time of installation.

Underground utilities are not present in the construction area and as such no relocation will be required.

The existing antenna support structure is structurally capable of supporting the new antenna, cables, and ancillary equipment proposed and will not need to be removed or rebuilt at the existing site. The tower or supporting structure meets all applicable EIA/TIA-222 structural, foundation, ice, wind, and twist and sway requirements. Motorola has not included any cost for structural or foundation upgrades to the antenna support structure and the Customer is responsible for any/all improvements that might be required.

The existing cable support facilities from the antenna to the cable entry port can be used for supporting the new antenna cables.

Structural analyses for towers or other structures that have not been performed by Motorola will relinquish Motorola from any responsibility for the analysis report contents and/or recommendation therein.

The site will have adequate room for installation of proposed equipment, based on applicable codes and Motorola's R56 standards.

The existing utility service and backup power facilities (UPS, generators) have sufficient extra capacity to support the proposed new equipment load.

A clear obstruction-free access exists from the antenna locations to the equipment rooms/shelters.

The existing floors within communication rooms/shelters can support the proposed new loading. Physical or structural improvements to the existing room will not be required.

Site Development Complete

All site development completed, and approved by the Customer.

Site Development Acceptance (Milestone)

All site developments completed and accepted by the Customer.

SYSTEM INSTALLATION

Install Network Equipment

Motorola Responsibilities:

Motorola will be responsible for the installation of all fixed equipment contained in the equipment list and outlined in the System Description based upon the agreed to floor plans, at the sites where the physical facility improvement is complete and the site is ready for installation. All equipment will be properly secured to the floor and installed in a neat and professional manner, employing a





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standard of workmanship consistent with its own R-56 installation standards and in compliance with applicable National Electrical Code (NEC), EIA, Federal Aviation Administration (FAA), and FCC standards and regulations.

For installation of the fixed equipment at the various sites, Motorola will furnish all cables for power, audio, control, and radio transmission to connect the Motorola supplied equipment to the power panels or receptacles and the audio/control line connection point.

During field installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system.

Receive and inventory all equipment.

Bond the supplied equipment to the site ground system in accordance with Motorola's R56 standards.

Customer Responsibilities:

Provide access to the sites, as necessary.

Provide for disposal of decommissioned equipment after removal by Motorola.

Completion Criteria:

Fixed Network Equipment installation completed and ready for optimization.

Equipment Installation Complete

All fixed network equipment installed and accepted by the Customer.

Console Installation

Motorola Responsibilities:

Install the consoles in the space and furniture provided by the Customer.

Connect the Customer-supplied, previously-identified circuits into the console, to a demarcation point located within 25 feet of the console interface.

Terminate the audio outputs for the logged talkgroups onto a punchblock, and then terminate these outputs into the logging recorder.

Install a dedicated Local Area Network (LAN) at each dispatch center to connect the proposed console positions.

Connect the appropriate equipment to the Customer-supplied ground system in accordance with Motorola's R56 Site Installation standards.

Perform the console programming, based on the console templates designed during the fleetmapping process.

Customer Responsibilities:

Provide demarcation point located within 25 feet of the console interface.

Provide power and ground.

Provide console furniture.

Completion Criteria:

Console installation is complete.





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Console Installation Complete

Console installation completed and accepted by the Township.

Microwave Installation

Motorola Responsibilities:

Motorola conduct path surveys.
Transmission engineering.
Assistance with frequency planning and coordination as required.
Field installation and commissioning.
Configuration, Optimization, and Testing.

Customer Responsibilities:

Provide access to sites.

Completion Criteria:

Fixed Network Equipment installation completed and ready for optimization.

SUBSCRIBER INSTALLATION

Program and Install Mobiles

Motorola Responsibilities:

Program test mobiles with each template version and activate them on the system.
Pass all features and functionalities of the mobile template.
Once all templates and client software is tested and approved by the Customer, Motorola requests template acceptance sign-off.
Program all the mobiles, as identified in the equipment list, in accordance with the Customer-approved programming templates, client software, and fleetmap.
Work with the Customer to develop and approve prototypes for each type of mobile installation.
Install all the mobiles in the vehicles, as identified in the equipment list, and according to the installation schedule.
Installation will be performed at a customer provided location.

The following guidelines are followed during installation:

A "one time only" programming charge is included in the project price.
If removal of additional existing radios is required, or a separate trip to remove these radios is necessary, such work will require updating the contract documents accordingly.
Installations utilize the standard mobile mounting hardware provided with the type of unit.
Obtain main power leads from a voltage source as supplied in the mobiles.
Permanently mount the antennas on each vehicle according to the approved prototype, appropriate for the vehicle type. Install the antennas close to the same location as the existing antennas, where practical, in vehicles that already have antennas installed. Install the antennas on the roof, where practical, on the new antenna installations.



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Motorola will determine an alternative location, whenever the antennas cannot be installed on the roof.

Plug the old antenna hole with an appropriate rubber plug, if the antenna requires a new location on the vehicle.

Customer Responsibilities:

Test and verify each feature selected during the CDR process.

Approve successful testing of each feature by initialing each test shown on the test script.

Provide a vehicle inventory for the installation of all APX mobiles

Provide adequate number of vehicles for installations, according to the project/installation schedule.

If any installations require variations from the approved plan, the Customer must approve, before proceeding with the variance.

Completion Criteria:

All mobiles are programmed and installed successfully and approved by the Customer.

Program and Distribute Portables

Motorola Responsibilities:

Program test portables with each template version and activate them on the system.

Once all templates and client software is tested and approved by the Customer, Motorola requests written approval of template acceptance.

Program all the portables, as identified in the equipment list, based upon the Customer approved programming templates, client software, and fleetmap. A "one time only" programming is included in the project pricing.

Deliver units to authorized Customer personnel and inventory upon receipt.

Customer Responsibilities:

Approve final template(s) and initiate portable programming.

Upon receipt of portables, a Customer authorized signatory acknowledges receipt of all portables and accessories and proper operation of a sampling of portables.

Distribute the portables to end users.

Completion Criteria:

All portables are successfully programmed and approved by the Customer.

Subscribers Complete

All Subscribers are programmed and/or distributed/installed successfully, and approved by the Customer.

System Installation Acceptance (Milestone)

All equipment installations are completed and accepted by the Customer.





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Completion Criteria:

System FNE optimization is complete.

AUDIT AND ACCEPTANCE TESTING

Perform R56 Audit

Motorola Responsibilities:

Perform R56 site-installation quality audits, verifying proper physical installation and operational configurations.

Create site evaluation report to verify site meets or exceeds requirements, as defined in Motorola's Standards and Guidelines for Communication Sites (R56).

Customer Responsibilities:

Provide access/escort to the sites.

Witness tests.

Completion Criteria:

All R56 audits completed successfully.

Perform Equipment Testing

Motorola Responsibilities:

Test individual components of the system to verify compliance to the equipment specifications.

Repeat any failed test(s) once Motorola (or the Customer) has completed the corrective action(s).

Prepare documentation of component tests to be delivered as part of the documentation package.

Customer Responsibilities:

Witness tests if desired.

Completion Criteria:

Successful completion of equipment testing.

System Acceptance Test Procedures (Milestone)

Customer approves the completion of all the required tests.

FINALIZE

Cutover

Motorola Responsibilities:





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Motorola and the Customer finalize the mutually agreed upon cutover plan based upon discussions held during the CDR.

During cutover, follow the written plan and implement the defined contingencies, as required.

Conduct cutover meeting(s) with user group representatives to address both how to mitigate technical and communication problem impact to the users during cutover and during the general operation of the system.

Customer Responsibilities:

Attend cutover meetings and approve the cutover plan.

Notify the user group(s) affected by the cutover (date and time).

Ensure that all Subscriber users are trained and the Subscribers have been activated on the system.

Provide Motorola with the subscriber information for input into the system database, for activation.

Completion Criteria:

Successful migration from the old system to the new system.

Resolve Punchlist

Motorola Responsibilities:

Work with the Customer to resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.

Customer Responsibilities:

Assist Motorola with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist item(s).

Completion Criteria:

All punchlist items resolved and approved by the Customer.

Transition to Service/Project Transition Certificate

Motorola Responsibilities:

Review the items necessary for transitioning the project to warranty support and service.

Provide a Customer Support Plan detailing the warranty and post-warranty support, if applicable, associated with the Contract equipment.

Customer Responsibilities:

Participate in the Transition Service/Project Transition Certificate (PTC) process.

Complete the NICE Remote Access Consent Form included within this section.

Completion Criteria:

All service information has been delivered and approved by the Customer.



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Finalize Documentation

Motorola Responsibilities:

Provide an electronic as-built system manual on a Compact Disk (CD). The documentation will include the following:

- System-Level Diagram
- Acceptance Test Plan Test Sheets and Results
- Equipment Inventory List

Drawings are created utilizing AutoCAD design software and will be delivered in Adobe PDF format. All other system manual documents converted from native format to Adobe PDF format to be included on the System Manual CD.

Customer Responsibilities:

Receive and approve all documentation provided by Motorola.

Completion Criteria:

All required documentation is provided and approved by the Customer.

Final Acceptance (Milestone)

- All deliverables completed, as contractually required.
- Final System Acceptance received from the Customer.

PROJECT ADMINISTRATION

Project Status Meetings

Motorola Responsibilities:

Motorola Project Manager, or designee, will attend all project status meetings with the Customer, as determined during the CDR.

Record the meeting minutes and supply the report.

The agenda will include the following:

- Overall project status compared to the Project Schedule.
- Product or service related issues that may affect the Project Schedule.
- Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
- Any miscellaneous concerns of either the Customer or Motorola.

Customer Responsibilities:

Attend meetings.

Respond to issues in a timely manner.

Completion Criteria:

Completion of the meetings and submission of meeting minutes.





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Progress Milestone Submittal

Motorola Responsibilities:

Submit progress (non-payment) milestone completion certificate/documentation.

Customer Responsibilities:

Approve milestone, which will signify confirmation of completion of the work associated with the scheduled task.

Completion Criteria:

The Customer approval of the Milestone Completion document(s).

Project Milestone Schedule

A high-level Milestone Schedule is provided below. A Gantt schedule will be developed based on final scope and submit during the Kick-off phase of the Project. The project schedule is based on the availability of the customer facility and all customer deliverables at the agreed upon time.

ITEM	PROJECT MILESTONES	MONTH
1	Contract Signed	0
2	Kick-off/Contract Design Review/Sites Released for Site Development	1
3	Order Entry Completed	1
4	Stage and Ship Equipment	3
5	Site Development Complete	6
6	FNE Equipment Installed	7
7	Equipment Test/Conditional Acceptance	8
8	Subscribers Programming/Installation Complete	9
9	Documentation Complete/Final Acceptance	10

Change Order Process

Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost or time required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written change order.





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Example - Change Order Form



CHANGE ORDER

Date:

Project Name:

Customer Name:

Customer Project Mgr:

The purpose of this Change Order is to: *(highlight the key reasons for this Change Order)*

--

Contract Date:

In accordance with the terms and conditions of the contract identified above between Little Egg Harbor and Motorola Solutions, Inc., the following changes are approved:

Contract Price Adjustments

Original Contract Value:	\$
Previous Change Order amounts for Change Order numbers through	\$
This Change Order:	\$
New Contract Value:	\$

Completion Date Adjustments

Original Completion Date:	
---------------------------	--



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Current Completion Date prior to this Change Order:

New Completion Date:

Changes in Equipment: *(additions, deletions or modifications)* Include attachments if needed

Changes in Services: *(additions, deletions or modifications)* Include attachments if needed

Schedule Changes: *(describe change or N/A)*

Pricing Changes: *(describe change or N/A)*

Customer Responsibilities: *(describe change or N/A)*

Payment Schedule for this Change Order:
(describe new payment terms applicable to this change order)

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

**Motorola
Solutions, Inc.**

Customer

By: _____

By: _____

Printed Name: _____

Printed Name: _____





MOTOROLA SOLUTIONS

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Title: _____

Title: _____

Date: _____

Date: _____

Date: _____

Reviewed by: _____
Motorola Solutions Project Manager





MOTOROLA SOLUTIONS

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ACCEPTANCE TEST PLAN

Township Of Little Egg Harbor

P25 Digital Conventional Radio System





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MCC 7500 CONVENTIONAL RESOURCES

Activity Log - Conventional

1. DESCRIPTION

The MCC7100/7500 Console activity log will show all traffic for the resource assigned to that console to include the time, radio alias, Channel, PTT ID and Emergency Call.

The dispatcher has the capability of selecting a logged call within in the "Activity Log Window" for instant transmit on the corresponding logged resource.

This activity log can be logged to a text file for archival purposes.

Note: The log file in the ops will only be seen if you first check Log Activity in Elite Admin application then in folder options uncheck hide hidden system files. The location will be c:\Program Data\MCC7500\MessageMonitorLogs.

SETUP

RADIO-1 – CONVENTIONAL CHANNEL 1
RADIO-2 – CONVENTIONAL CHANNEL 2
RADIO-3 – CONVENTIONAL CHANNEL 3
RADIO-4 – CONVENTIONAL CHANNEL 4

CONSOLE-1 – CONVENTIONAL CHANNEL 1,
CONVENTIONAL CHANNEL 2, CONVENTIONAL
CHANNEL 3, CONVENTIONAL CHANNEL 4

VERSION #1.060

2. TEST

- Step 1. On CONSOLE-1 select the "Show Activity Log" button on the tool bar to open the Activity Log Window.
- Step 2. Initiate calls on RADIO-1, RADIO-2, RADIO-3 and RADIO-4 to log call information and verify calls are displayed in the activity log window.
- Step 3. Select a logged call in the Activity Log Window and verify that the Channel Control Window (CCW) at the top of the Activity log window changes to the corresponding resource. Verify the dispatcher is capable of responding via the instant transmit button.
- Step 4. Open the text file created by the Activity Log and verify call traffic has been archived to the document file.

Pass____ Fail____





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MCC 7500 Conventional Resources**Main / Alt - Conventional****1. DESCRIPTION**

This test will demonstrate that an MCC 7100/7500 console can create Main/Alt channel pairs and that the channels can be swapped and the call processing behavior will be according to the defined operation of Main/Alt for Digital Conventional, Analog Conventional, Mixed Mode and MDC 1200 channels.

SETUP

Pass ____ Fail ____

RADIO-1 - CONVENTIONAL CHANNEL 1
RADIO-2 - CONVENTIONAL CHANNEL 2

CONVENTIONAL CHANNEL 1 - MAIN-ACTIVE
CONVENTIONAL CHANNEL 2 - ALTERNATE-INACTIVE

CONSOLE-1 - CONVENTIONAL CHANNEL 1
CONSOLE-1 - CONVENTIONAL CHANNEL 2

VERSION #1.020**2. TEST**

- Step 1. Key-up CONSOLE-1 on CONVENTIONAL CHANNEL 1.
- Step 2. Verify that RADIO-1 hears CONSOLE-1 on CONVENTIONAL CHANNEL 1.
- Step 3. Fail the MAIN_ACTIVE Channel (CONVENTIONAL CHANNEL 1) and verify that the Alt channel (CONVENTIONAL CHANNEL 2) is available for selection by the console. Key-up CONSOLE-1 on CONVENTIONAL CHANNEL 2 and verify that RADIO-2 on the Alt channel is able to hear the console audio transmission.





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MCC 7500 Conventional Resources**Radio Check****1. DESCRIPTION**

Radio Check allows the console operator to determine if a subscriber is operational or within range. The subscriber sends the acknowledgment that it has received the Radio Check.

NOTE: The status/message line must be added to the Channel Control Window (CCW) of the resource in order for the "ACKNOWLEDGED" indication to be visible.

This test can be run using Digital Conventional or MDC1200 Channels.

SETUP

RADIO-1 - CONVENTIONAL CHANNEL 1

CONSOLE-1 - CONVENTIONAL CHANNEL 1

VERSION #1.030

2. TEST

- Step 1. Using CONSOLE-1 select the CONVENTIONAL CHANNEL 1 Radio Resource.
- Step 2. From the active Radio Resource select the Radio Check button. Enter the ID or alias of RADIO-1 in the Radio Check window.
- Step 3. Click the "Send" button from the Radio Check window to initiate the Radio Check.
- Step 4. Verify that "ACKNOWLEDGED" is shown on CONVENTIONAL CHANNEL 1's Channel Control Window.
- Step 5. Turn off RADIO-1.
- Step 6. Click the "Send" button from the Radio Check window to initiate the Radio Check on RADIO-1.
- Step 7. Verify that an error message is logged: "Send Radio Check failed: Target not found."

Pass____ Fail____





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MCC 7500 Conventional Resources

Radio Disable/Enable

1. DESCRIPTION

This test will demonstrate the Radio Disable/Enable service is supported from an MCC7100/7500 console using a Conventional channel. Once the radio is inhibited/disabled, the radio cannot be used to monitor voice channels or for any other radio user initiated activity.

This test can be run using Digital Conventional or MDC1200 Channels

SETUP

RADIO-1 - CONVCH 1

CONSOLE-1 - CONVCH 1

VERSION #1.030

2. TEST

- Step 1. Verify that RADIO-1 can transmit and receive audio.
- Step 2. From the active Radio Resource on the console select the RADIO INHIBIT/DISABLE icon. Enter the ID or alias of RADIO-1. Click the "Send" button to initiate the RADIO INHIBIT/DISABLE.
- Step 3. Verify that RADIO-1 appears to be powered-down and unable to transmit or receive audio.
- Step 4. Send a Radio Check/Remote Monitor to RADIO-1 and verify that it can still receive and respond to a Radio Check/Remote Monitor but without providing any indication to the radio user.
- Step 5. From the active Radio Resource on the console select the RADIO UNINHIBIT/ENABLE icon. Enter the ID or alias of RADIO-1. Click the "Send" button to initiate the RADIO UNINHIBIT/ENABLE.
- Step 6. Verify that RADIO-1 appears to be powered-up and is able to transmit or receive audio.

Pass_____ Fail_____





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CONVENTIONAL TESTS

Conventional Comparator Force Vote Using Customer Service Software (CSS)

1. DESCRIPTION

The user has the ability to send a "Force Vote" command to a Conventional Comparator. Force voting allows the user to customize or test the audio paths of the system.

SETUP

RADIO-1 – CONVENTIONAL CHANNEL 1
RADIO-2 - CONVENTIONAL CHANNEL 1

VERSION #1.000

2. TEST

- Step 1. Using a client with CSS, enable the "Force Vote" command on one site and verify the "Force Vote" on CSS is active.
- Step 2. Initiate a call on CONVENTIONAL CHANNEL 1 using RADIO-1 and verify the audio is received from the force-voted site on RADIO-2.
- Step 3. In CSS, disable the "Force Vote" command on the site and verify the "Force Vote" on the CSS is deactivated.
- Step 4. Repeat steps 1-3 on all sites.

Pass____ Fail____





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Conventional Tests

Conventional Comparator Vote Disable Using Customer Service Software (CSS),

1. DESCRIPTION

The user has the ability to send a "Vote Disable" command to a Conventional Comparator. A Vote Disable allows the user to customize or test the audio paths of the system.

SETUP

RADIO-1 – CONVENTIONAL CHANNEL 1
RADIO-2 - CONVENTIONAL CHANNEL 1

VERSION #1.010

2. TEST

- Step 1. Using a client with CSS, enable the "Vote Disable" command on one site and verify the "Vote Disable" on CSS is active.
- Step 2. Initiate a call on CONVENTIONAL CHANNEL 1 using RADIO-1 and verify the audio is received from a site other than the vote disabled site on RADIO-2 (using CSS).
- Step 3. In CSS, unselect the "Vote Disable" command on the site and verify the "Vote Disable" on the CSS is deactivated.
- Step 4. Repeat steps 1-3 on all sites.

Pass_____ Fail_____



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RADIO TO RADIO FEATURES

Conventional Radio Resource Call - Clear Mode

1. DESCRIPTION

Subscribers can communicate to each other through a repeater that is selected via the channel selector on the individual radio.

The signals that are received from the subscriber radio are repeated so that other radios on that channel will be able to hear and participate in the conversation.

SETUP

RADIO-1 - CONVENTIONAL CHANNEL 1
RADIO-1 - CONVSITE 1
RADIO-2 - CONVENTIONAL CHANNEL 1
RADIO-2 - CONVSITE 1

VERSION #1.050

2. TEST

- Step 1. Initiate a CONVENTIONAL CHANNEL 1 call on RADIO-1.
- Step 2. Verify RADIO-2 can monitor and respond to the call on CONVENTIONAL CHANNEL 1.
- Step 3. Initiate a CONVENTIONAL CHANNEL 1 call on RADIO-2.
- Step 4. Verify RADIO-1 can monitor and respond to the call on CONVENTIONAL CHANNEL 1.
- Step 5. Repeat above tests for each repeater channel.

Pass____ Fail____





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Radio to Radio Features

Conventional ASTRO Emergency

1. DESCRIPTION

Users in life threatening situations can use the Emergency button on the radio to notify the dispatch and other radio users on the channel of an Emergency.

SETUP

RADIO-1 - SITE 1
RADIO-2 - SITE 1

VERSION #1.070

2. TEST

- Step 1. Using RADIO-1, initiate an Emergency Alarm by depressing the emergency button.
- Step 2. If a dispatch console is attached, observe that the console shows the alarm. The console will also acknowledge the alarm and cause RADIO-1 to sound an Emergency Alarm acknowledgment.
- Step 3. If no dispatch console is attached, or if the radio is out of range, observe that RADIO-1 will continue to transmit the emergency. RADIO-1 will stop transmitting the Emergency once the emergency has been acknowledged or the retry limit has been reached.
- Step 4. Using RADIO-1, initiate an Emergency Call by depressing the PTT button.
- Step 5. Observe that RADIO-2 displays "EMERGENCY CALL" along with "RADIO-1".
- Step 6. Using RADIO1, clear the emergency by depressing the emergency button for 2 seconds.

Pass_____ Fail_____



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Radio to Radio Features

Conventional Radio Resource Via Comparator

1. DESCRIPTION

A comparator will vote all receive capable sites and transmit on specified transmit capable sites. Because a comparator will construct a signal from multiple sites, it is necessary to test each site individually.

SETUP

RADIO-1 - SITE 1
RADIO-2 - SITE 1

VERSION #1.040

2. TEST

- Step 1. Disable all sites on the comparator except SITE 1.
- Step 2. Verify communications between RADIO-1 and RADIO-2.
- Step 3. Disable SITE 1 and enable the next site. Change the channel on the subscriber if necessary.
- Step 4. Verify communications between RADIO-1 and RADIO-2.
- Step 5. Repeat steps 3 & 4 until all sites on the comparator have been individually tested.
- Step 6. Enable all sites on the comparator.
- Step 7. Verify communications between RADIO-1 and RADIO-2 with all sites enabled.

Pass_____ Fail_____



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SIGNOFF CERTIFICATE

By their signatures below, the following witnesses certify they have observed the system Acceptance Test Procedures.

Signatures

WITNESS:

Date: _____

Please Print Name: _____

Initials:

Please Print Title: _____

WITNESS:

Date: _____

Please Print Name: _____

Initials:

Please Print Title: _____

WITNESS:

Date: _____

Please Print Name: _____

Initials:

Please Print Title: _____



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WARRANTY

Motorola has 85 years of experience supporting mission critical communications for public safety and public service agencies. Motorola's technical and service professionals use a structured approach to life cycle service delivery and provide comprehensive maintenance and support throughout the life of the system. The value of support is measured by system availability, which is optimized through the use of proactive processes, such as preventive maintenance, fault monitoring and active response management. System availability is a function of having in place a support plan delivered by highly skilled support professionals, backed by proven processes, tools, and continuous training.

THE MOTOROLA SERVICE DELIVERY TEAM

Customer Support Manager

Your Motorola Customer Support Manager provides coordination of support resources to enhance the quality of service delivery and to ensure your satisfaction. The Customer Support Manager (CSM) is responsible to oversee the execution of the Warranty and Service Agreement and ensure that Motorola meets its response and restoration cycle time commitments. The CSM will supervise and manage the Motorola Authorized Servicer's functions.

Motorola System Technologists

Motorola has proven experience to deliver mission critical network support

- **Extensive Experience** – Motorola has 85 years of experience supporting mission critical communications and the Public Safety community.
- **Capacity to Respond** – Motorola's network of local service centers, repair depots, system support center and parts support enable Motorola to provide quick and effective service delivery.
- **Flexibility and Scalability** – Motorola's Support Plans are customized to meet individual Customer needs.
- **Skills and Process** – Motorola uses a well-established, structured, and disciplined approach to provide service delivery. Motorola's team of well-trained and committed people

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The Motorola System Technologists (STs) are available to assist Motorola's Authorized Servicers when needed for network health and operations.

understands the communications technology business.

Motorola System Support Center

Located in Schaumburg, Illinois, the System Support Center (SSC) is a key component to the overall management and system maintenance. As detailed in this Customer Support Plan, the following services are provided by the System Support Center:

- Dispatch Service.
- Infrastructure Repair.

Motorola Local Service Provider

Motorola's authorized service centers are staffed with trained and qualified technicians. They provide rapid response, repair, restoration, installations, removals, programming, and scheduled preventive maintenance tasks for site standards compliance and RF operability. Motorola's authorized service centers are assessed annually for technical and administrative competency.

Motorola places great emphasis on ensuring that communications systems, such as the one proposed for Manchester, meet high standards for design, manufacture, and performance. To enhance the value of the communications system being acquired, Motorola offers customized warranty and post-warranty services as outlined in this section.

WARRANTY SERVICES

The service products that comprise the custom warranty package are listed below along with a brief description.

The warranty on the new infrastructure equipment will commence on the date of beneficial use or system acceptance, whichever occurs first, and will continue for twelve (12) months from that date on a seven (7) day-a-week, twenty-four (24) hour-a-day basis.

These services are included in the total cost of the system. After the warranty period expires, these services may be purchased under a separate agreement. Motorola's service package is comprised of the following services:

- Dispatch Service
- Infrastructure Repair with Advanced Replacement
- Technical Support
- Onsite Infrastructure Response
- Network Monitoring for the ASR site only.

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Please note that the warranty services are for the equipment proposed and do not include any existing equipment. Response and repair excludes third party equipment not shipped by Motorola.

Please note that civil and site system components such as, but not limited to, UPS equipment, Generators, Shelters, and Antenna Systems are only covered by their manufacturer's warranty. Any services provided by Motorola for these items will be considered above contract and will be billed on a Time and Materials basis.

Dispatch Service

Motorola's Dispatch Service ensures that trained and qualified technicians are dispatched to diagnose and restore your communications network. Following proven response and restoration processes, the local authorized service center in your area is contacted and a qualified technician is sent to your site. An automated escalation and case management process is followed to ensure that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been resolved, the System Support Center verifies resolution and with your approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

Onsite Infrastructure Response

Motorola Onsite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore your communications network. Following proven response and restore processes, Motorola Dispatch contacts the local authorized service center in your area and dispatches a qualified technician to your site. An automated escalation and case management process ensures that technician site arrival and system restoration comply with contracted response times. The field technician restores the system by performing first level troubleshooting on-site. If the technician is unable to resolve the issue, the case is escalated to the System Support Center or product engineering teams as needed.

Technical Support Service

Motorola Technical Support service provides an additional layer of support through centralized, telephone consultation for issues that require a high level of communications network expertise and troubleshooting capabilities. Technical Support is delivered by the System Support Center (SSC). The SSC is staffed with trained, skilled technologists specializing in the diagnosis and swift resolution of network performance issues. These technologists have access to a solutions database as well as in house test labs and development engineers. Technical Support cases are continuously monitored against stringent inbound call management and case management standards to ensure rapid and consistent issue resolution. Technical Support service translates into measurable, customer-specific metrics for assured network performance and system availability.



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Infrastructure Repair with Advance Replacement

Infrastructure Repair service provides for the repair of all Motorola-manufactured equipment, as well as equipment from third-party infrastructure vendors. All repair management is handled through a central location eliminating your need to send equipment to multiple locations. Motorola will ship a replacement unit in advance of receiving the unit from the field.

Comprehensive test labs replicate your network in order to reproduce and analyze the issue. State-of-the-art, industry-standard repair tools enable our technicians to troubleshoot, analyze, test, and repair your equipment. Our ISO9001 and TL9000-certified processes and methodologies ensure that your equipment is quickly returned maintaining the highest quality standards.

Response and repair excludes third party equipment not shipped by Motorola.

First Echelon On-Site Support: Microwave

Motorola First Echelon On-Site Support will be added to supplement the manufacturer's depot level warranty. This provides local, trained and qualified technicians to work with the original equipment manufacturer to diagnose and restore your communications network. The field technicians restore the system by performing first level troubleshooting on site.

Response will be provided 24x7. Site access requiring tower climbs are not included under the terms of the contract.

POST WARRANTY SERVICES

As Motorola's continuing commitment to supporting your system, warranty services can be extended after the warranty period to provide maintenance and service support in future years. Any of the services that we identify can be customized in future years, and are available for purchase either in "System Support Services" packages or as individual service offerings. These system support services significantly benefit for Manchester because the system can be effectively supported after the warranty period, thereby maximizing the operational capabilities and useful life of the system and protecting your investment in the system.

Post-warranty support has not been included with this offering but can be provided upon request.



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PAYMENT SCHEDULE

Little Egg Police Department will make payments to Motorola Solutions within thirty (30) days after the date of each invoice. Little Egg Police Department will make payments when due in the form of a check, cashier's check, or wire transfer drawn on a U.S. financial institution.

1. 10% of the FNE Contract Price upon Completion of Customer Design Review (CDR);
2. 80% of FNE Contract Price upon Completion of CCSi Staging;
3. 10% of the FNE Contract Price upon Final Acceptance; and

Motorola reserves the right to make partial shipments of equipment and to request payment upon shipment of such equipment. In addition, Motorola reserves the right to invoice for installations and civil work completed on a site-by-site basis, when applicable.

**MOTOROLA**

NJ State Contract # 83909
Contract Expiration 04/30/2018

Little Egg Harbor

VENDOR: MOTOROLA Solutions Care of Allcomm
5105 Route 34
Farmingdale, NJ 07727

PHONE: 732-919-1144
FAX: 732-919-1411

Commodity Code	Number	Model Number	Description	Qty	Unit Price	Discount %	Extended Total
			Controller				
725-78-081934	1	SQM01SUM0237	SINGLE ZONE CONV NON-RED CORE	1	\$ 24,950.00	20%	\$ 19,960.00
725-78-081934	1	CA02259AA	ADD: Redundancy	1	\$ 20,000.00	20%	\$ 16,000.00
725-78-081934	1	CA01896AB	ADD: BACKHAUL SWITCH	2	\$ 2,250.00	20%	\$ 3,600.00
725-78-081934	1	CA01663AB	ADD: RACK	1	\$ 495.00	20%	\$ 396.00
			Comparators				
725-78-081934	1	T7321	GCM 8000 COMPARATOR	1	\$ 3,000.00	20%	\$ 2,400.00
725-78-081934	1	CA01183AA	GCM 8000 COMPARATOR	2	\$ 5,000.00	20%	\$ 8,000.00
725-78-081934	1	CA01484AC	ASTRO 25 CONVENTIONAL SOFTWARE	2	\$ 8,000.00	20%	\$ 12,800.00
725-78-081934	1	CA01505AC	ADD: ADD: ASTRO 25 CONV VOTING SW	2	\$ 2,000.00	20%	\$ 3,200.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$ 40.00
725-78-081934	1	T7321	GCM 8000 COMPARATOR	1	\$ 3,000.00	20%	\$ 2,400.00
725-78-081934	1	CA01183AA	GCM 8000 COMPARATOR	2	\$ 5,000.00	20%	\$ 8,000.00
725-78-081934	1	CA01484AC	ASTRO 25 CONVENTIONAL SOFTWARE	2	\$ 8,000.00	20%	\$ 12,800.00
725-78-081934	1	CA01505AC	ADD: ADD: ASTRO 25 CONV VOTING SW	2	\$ 2,000.00	20%	\$ 3,200.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$ 40.00
			Consoles				
725-78-081934	15	TT2833	Z420 LOW TIER WORKSTATION WINDOWS	1	\$ 2,950.00	20%	\$ 2,360.00
725-78-081934	15	B1905	MCC 7500 ASTRO 25 SOFTWARE	1	\$ 250.00	20%	\$ 200.00
725-78-081934	15	B1933	MOTOROLA VOICE PROCESSOR MODULE	3	\$ 11,920.00	20%	\$ 28,608.00
725-78-081934	15	CA01642AA	ADD: MCC 7500 BASIC CONSOLE FUNCTIO	3	\$ 12,000.00	20%	\$ 28,800.00
725-78-081934	15	CA01644AA	ADD: MCC 7500 /MCC 7100 ADV CONVL O	3	\$ 3,000.00	20%	\$ 7,200.00
725-78-081934	15	CA00140AA	ADD: AC LINE CORD, NORTH AMERICAN	3	\$ -	20%	\$ -
725-78-081934	15	CA00147AF	ADD: MCC 7500 SECURE OPERATION	3	\$ 3,250.00	20%	\$ 7,800.00
725-78-081934	15	CA00182AB	ADD: AES ALGORITHM	3	\$ 750.00	20%	\$ 1,800.00
725-78-081934	15	CA01645AA	ADD: MCC 7500/MCC 7100 IED OPERATI	3	\$ 4,200.00	20%	\$ 10,080.00
725-78-081934	15	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS	3	\$ 2,950.00	20%	\$ 7,080.00
725-78-081934	15	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG	3	\$ 50.00	20%	\$ 120.00
725-78-081934	15	B1912	MCC SERIES DESKTOP SPEAKER	6	\$ 450.00	20%	\$ 2,160.00
725-78-081934	15	B1914	MCC SERIES DESKTOP GOOSENECK MICROP	3	\$ 250.00	20%	\$ 600.00
725-78-081934	15	B1913	MCC SERIES HEADSET JACK	4	\$ 200.00	20%	\$ 640.00
725-78-081934	15	BLN6732	FOOT, SWITCH TRADITIONAL	2	\$ 129.00	20%	\$ 206.40
725-78-081934	15	T7885	MCACFEW WINDOWS AV CLIENT	4	\$ 165.00	20%	\$ 528.00
725-78-081934	1	SQM01SUM0205	GGM 8000 GATEWAY	1	\$ 4,200.00	20%	\$ 3,360.00
725-78-081934	1	CA01616AA	ADD: AC POWER	1	\$ -	20%	\$ -
725-78-081934	1	CA02086AA	ADD: HIGH DENSITY ENH CONV GATEWAY	1	\$ 6,000.00	20%	\$ 4,800.00

725-78-081934	1	F4543	SITE MANAGER BASIC	1	\$ 1,855.00	20%	\$	1,484.00
725-78-081934	1	VA00874	ADD: AUX I-O SERV FW CURR ASTRO REL	1	\$ 175.00	20%	\$	140.00
725-78-081934	1	V266	ADD: 90VAC TO 260VAC PS TO SM	1	\$ 120.00	20%	\$	96.00
725-78-081934	1	V592	AAD TERM BLCK & CONN WI	3	\$ 90.00	20%	\$	216.00
725-78-081934	1	TT2022	LX400T 8 PORT TERMINAL SERVER,	1	\$ 2,700.00	20%	\$	2,160.00
725-78-081934	1	DSTRPUD120	19 INCH RACK MOUNT PDU, 6 NEMA 5-15	2	\$ 138.00	20%	\$	220.80
			Frog Pond Water Tower					
725-78-081934	1	SQM01SUM0205	GGM 8000 GATEWAY	1	\$ 4,200.00	20%	\$	3,360.00
725-78-081934	1	CA01619AA	ADD: DC POWER	1	\$ -	20%	\$	-
725-78-081934	1	CLN1856	2620-24 ETHERNET SWITCH	1	\$ 2,250.00	20%	\$	1,800.00
725-78-081934	1	T7039	GTR 8000 Base Radio	1	\$ 6,000.00	20%	\$	4,800.00
725-78-081934	1	CA00855AA	ADD: 700/800 MHZ	1	\$ 6,300.00	20%	\$	5,040.00
725-78-081934	1	CA01948AA	ADD: CONVENTIONAL SOFTWARE	1	\$ 6,500.00	20%	\$	5,200.00
725-78-081934	1	CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING S	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$	40.00
725-78-081934	1	CA01400AA	ADD: POWER CABLE, DC	1	\$ -	20%	\$	-
725-78-081934	1	T7039	GTR 8000 Base Radio	1	\$ 6,000.00	20%	\$	4,800.00
725-78-081934	1	CA00855AA	ADD: 700/800 MHZ	1	\$ 6,300.00	20%	\$	5,040.00
725-78-081934	1	CA01948AA	ADD: CONVENTIONAL SOFTWARE	1	\$ 6,500.00	20%	\$	5,200.00
725-78-081934	1	CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING S	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$	40.00
725-78-081934	1	CA01400AA	ADD: POWER CABLE, DC	1	\$ -	20%	\$	-
725-78-081934	1	T7039	GTR 8000 Base Radio	1	\$ 6,000.00	20%	\$	4,800.00
725-78-081934	1	CA00855AA	ADD: 700/800 MHZ	1	\$ 6,300.00	20%	\$	5,040.00
725-78-081934	1	CA01948AA	ADD: CONVENTIONAL SOFTWARE	1	\$ 6,500.00	20%	\$	5,200.00
725-78-081934	1	CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING S	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$	40.00
725-78-081934	1	CA01400AA	ADD: POWER CABLE, DC	1	\$ -	20%	\$	-
725-78-081934	1	T7039	GTR 8000 Base Radio	1	\$ 6,000.00	20%	\$	4,800.00
725-78-081934	1	CA00855AA	ADD: 700/800 MHZ	1	\$ 6,300.00	20%	\$	5,040.00
725-78-081934	1	CA01948AA	ADD: CONVENTIONAL SOFTWARE	1	\$ 6,500.00	20%	\$	5,200.00
725-78-081934	1	CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING S	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$	40.00
725-78-081934	1	CA01400AA	ADD: POWER CABLE, DC	1	\$ -	20%	\$	-
725-78-081934	1	T7039	GTR 8000 Base Radio	1	\$ 6,000.00	20%	\$	4,800.00
725-78-081934	1	CA00855AA	ADD: 700/800 MHZ	1	\$ 6,300.00	20%	\$	5,040.00
725-78-081934	1	CA01948AA	ADD: CONVENTIONAL SOFTWARE	1	\$ 6,500.00	20%	\$	5,200.00
725-78-081934	1	CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING S	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$ 50.00	20%	\$	40.00
725-78-081934	1	CA01400AA	ADD: POWER CABLE, DC	1	\$ -	20%	\$	-
725-78-081934	1	CA02225AA	GTR ESS INTEGRATION KIT FOR EXT GGM	1	\$ 300.00	20%	\$	240.00
725-78-081934	1	DSGXT0900N007	UPS, GXT RACKMOUNT 1000VA/900W, 7 M	2	\$ 1,500.00	20%	\$	2,400.00
			Headquarters					
725-78-081934	1	T7540	GPW 8000 RECEIVER	1	\$ 1,000.00	20%	\$	800.00
725-78-081934	1	CA00855AB	ADD: 700/800 MHZ	1	\$ 3,200.00	20%	\$	2,560.00
725-78-081934	1	X301AR	ADD: QTY 1 GPW 8000 RECEIVER	1	\$ -	20%	\$	-
725-78-081934	1	CA01948AB	ADD: CONVENTIONAL SOFTWARE R/X ONLY	1	\$ 2,000.00	20%	\$	1,600.00
725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$ 500.00	20%	\$	400.00

725-78-081934	1	X265AJ	ADD: BASE RADIO PRESELECTION, 700 MH	1	\$	500.00	20%	\$	400.00
725-78-081934	1	X153AW	ADD: RACK MOUNT HARDWARE	1	\$	50.00	20%	\$	40.00
725-78-081934	1	X180	ALT: CABINET, INDOOR 60"	2	\$	880.00	20%	\$	1,408.00
725-78-081934	1	DSTRPUD120	19 INCH RACK MOUNT PDU, 6 NEMA 5-15	2	\$	138.00	20%	\$	220.80
725-78-081934	1	T7537B	Keyloader						
725-78-081934	1	U239AD	KVL 4000 PDA SNAP-ON	1	\$	1,250.00	20%	\$	1,000.00
725-78-081934	1	CA01598AA	ADD: ASTRO 25 MODE	1	\$	250.00	20%	\$	200.00
725-78-081934	1	CA00182AP	ADD: AC LINE CORD US	1	\$	11.00	20%	\$	8.80
725-78-081934	1	CA00243AG	ADD: AES ENCRYPTION SOFTWARE	1	\$	750.00	20%	\$	600.00
725-78-081934	1	X423AF	ADD: ADP PRIVACY	1	\$	300.00	20%	\$	240.00
725-78-081934	1	C725AA	ADD: DES/DES-XL/DES-OFB ENCRYPTION	1	\$	1,550.00	20%	\$	1,240.00
725-78-081934	1	HKN6182	ADD: KEYLOAD CABLE FOR APX PORTABLE	1	\$	75.00	20%	\$	60.00
725-78-081934	1	CA02186	ADD: KEYLOADING CABLE ADAPTER (GCAI	1	\$	41.50	20%	\$	33.20
725-78-081934	1	CA01803	ADD: KEYLOAD CABLE FOR CRYPTR MICRO	1	\$	190.00	20%	\$	152.00
920-37-085644	25		ADD: KVL 4000 SLEEVE COVER	1	\$	75.00	20%	\$	60.00
726-88-085633	3	L30TSS9PW1 N	Microwave						
726-88-085633	3	GA00244	MICROWAVE SYSTEM AND INSTALLATION	548	\$	250.00	0%	\$	137,000.00
726-88-085633	3	GA00346	Consolettes						
726-88-085633	3	G806	APX CONSOLLETTE DUAL BAND	2	\$	3,980.00	25%	\$	5,970.00
726-88-085633	3	G51	ADD: 7/800MHZ PRIMARY BAND	2	\$	-	25%	\$	-
726-88-085633	3	G361	ADD: UHF R2 MP SECONDARY BAND	2	\$	400.00	25%	\$	600.00
726-88-085633	3	GA00580	ADD: ASTRO DIGITAL CAI OPERATION	2	\$	515.00	25%	\$	772.50
726-88-085633	3	L999	ENH: SMARTZONE OPERATION APX	2	\$	1,500.00	25%	\$	2,250.00
726-88-085633	3	GA00469	ADD: P25 TRUNKING SOFTWARE	2	\$	300.00	25%	\$	450.00
726-88-085633	3	G851	ADD: TDMA OPERATION	2	\$	400.00	25%	\$	600.00
726-88-085633	3	W969	ADD: FULL FP W/05/KEYPAD/CLOCK/VU	2	\$	789.00	25%	\$	1,183.50
726-88-085633	3	CA01598	ENH: EXTENDED DISPATCH APX CONSOLE	2	\$	500.00	25%	\$	750.00
726-88-085633	3	GA00318	ADD: AES/DES-XL/DES-OFB ENCRYPTION	2	\$	799.00	25%	\$	1,198.50
726-88-085633	3	G90	ADD: MULTIPLE KEY ENCRYPTION OPERAT	2	\$	330.00	25%	\$	495.00
726-88-085633	3	DS430501A04SH	ADD: AC LINE CORD US	2	\$	-	25%	\$	-
726-88-085633	3	DQSC432DHF6LDF45G0	ADD: 5 YEAR SERVICE FROM THE START	2	\$	319.00	0%	\$	638.00
726-88-085633	3	DDN1090	ADD: NO MICROPHONE NEEDED	2	\$	-	25%	\$	-
726-88-085633	3	L1705	SHORT HAUL CONTROL STATION COMBINER	2	\$	1,602.00	20%	\$	2,563.20
726-88-085633	3	DDN1089	DUAL COLLINER OMNI ANTENNA	1	\$	3,260.00	20%	\$	2,608.00
726-88-085633	3	DSISB50LNC2MA	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	2	\$	26.00	20%	\$	41.60
726-88-085633	3	DSSG1206B2A	LDF4-50A CABLE: 1/2" LDF HELIAX POL	200	\$	3.30	20%	\$	528.00
726-88-085633	3	DSEZ400NMK	L4TNF-PSA TYPE N FEMALE PS FOR 1/2	2	\$	26.00	20%	\$	41.60
726-88-085633	3	Q629	RF SPD, 125-1000MHZ DC BLOCK BROADB	2	\$	70.00	20%	\$	112.00
726-88-085633	3	Q629	SG12-06B2A 1/2IN SURE GROUND GROUND	4	\$	19.00	20%	\$	60.80
726-88-085633	3	Q629	TIMES MICROWAVE N MALE CONNECTOR FO	20	\$	18.00	20%	\$	288.00
726-88-085633	3	Q629	3/8" LMR400 COAXIAL CBL PER FOOT. M	200	\$	1.35	20%	\$	216.00
726-88-085633	3	Q629	Subscribers						
726-88-085633	3	Q629	APX6000 700/800 MODEL 1.5 PORTABLE	50	\$	1,900.00	30%	\$	66,500.00
726-88-085633	3	Q629	ADD: 9600 TRUNKING OR 3600 DIGITAL	50	\$	1,570.00	30%	\$	54,950.00
726-88-085633	3	Q629	ADD: TDMA OPERATION	50	\$	400.00	30%	\$	14,000.00
726-88-085633	3	Q629	ENH: AES ENCRYPTION	50	\$	475.00	30%	\$	16,625.00

726-88-085633	2	Q887	ADD: 5 YEAR SERVICE FROM THE START	50	\$	162.00	0%	\$	8,100.00
726-88-085633	2	NINTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A,	50	\$	150.00	30%	\$	5,250.00
726-88-085633	2	NINTN7038B	BATT IMP STD IP67 LION 2900M 3100T	50	\$	142.00	30%	\$	4,970.00
726-88-085633	2	PMLN5657B	APX6000 CC 2.75 SWLBL 2900&2150MAH	50	\$	71.50	30%	\$	2,502.50
726-88-085633	2	PMMN4062A	APX7000 IMPRES RSM, NOISE CANC. EME	50	\$	118.00	30%	\$	4,130.00
726-88-085633	3	M25URS9PW1 N	APX6500 7800 MHZ MID POWER MOBILE	30	\$	1,899.00	30%	\$	39,879.00
726-88-085633	3	QAO2756	ENH: 9600 OR 3600 SINGLE SYSTEM DIG	30	\$	1,570.00	30%	\$	32,970.00
726-88-085633	3	GA00580	ADD: TDMA OPERATION	30	\$	400.00	30%	\$	8,400.00
726-88-085633	3	G67	ADD: REMOTE MOUNT MID POWER	30	\$	297.00	30%	\$	6,237.00
726-88-085633	3	G442	ADD: O5 CONTROL HEAD	30	\$	432.00	30%	\$	9,072.00
726-88-085633	3	G444	ADD: APX CONTROL HEAD SOFTWARE	30	\$	-	30%	\$	-
726-88-085633	3	G335	ADD: ANT 1/4 WAVE 762-870 MHZ	30	\$	14.00	30%	\$	294.00
726-88-085633	3	W22	ADD: STD PALM MICROPHONE APEX	30	\$	72.00	30%	\$	1,512.00
726-88-085633	3	B18	ADD: AUXILIARY SPKR 7.5 WATT	30	\$	60.00	30%	\$	1,260.00
726-88-085633	3	G843	ADD: AES ENCRYPTION APX	30	\$	475.00	30%	\$	9,975.00
726-88-085633	3	GA00235	ADD: NO GPS ANTENNA NEEDED	30	\$	-	30%	\$	-
726-88-085633	3	GA00318	ADD: 5 YEAR SERVICE FROM THE START	30	\$	246.00	0%	\$	7,380.00
726-90-085542	13	DSCC80706	Frog Pond Water Tower TX						
726-90-085542	13	L1705	COLLINEAR OMNI ANTENNA, 6 DBD, LOW	1	\$	3,137.00	20%	\$	2,509.60
726-90-085542	13	DDN1090	LDF4-50A CABLE: 1/2" LDF HELIAX POL	15	\$	3.30	20%	\$	39.60
726-90-085542	13	TDN9289	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	2	\$	26.00	20%	\$	41.60
726-90-085542	13	L3323	221213 CABLE WRAP WEATHERPROOFING	2	\$	22.00	20%	\$	35.20
726-90-085542	13	DDN1077	AVA5-50, COAXIAL CABLE, CORRUGATED	130	\$	8.00	20%	\$	832.00
726-90-085542	13	DSSG7806B2A	7-16IN DIN FEMALE CONNECTOR EZ-FIT	2	\$	39.75	20%	\$	63.60
726-90-085542	13	DSL5SGRIP	SG78-06B2A GROUNDING KIT FOR 7/8 IN	2	\$	22.50	20%	\$	36.00
726-90-085542	13	MDN6817	L5SGRIP 7/8" SUPPORT HOIST GRIP	1	\$	28.50	20%	\$	22.80
726-90-085542	13	DSTXDFMBF	42396A-5 7/8" CABLE HANGER STAINLE	4	\$	27.00	20%	\$	86.40
726-90-085542	13	L1705	RF SPD, 698-2700MHZ DC BLOCK HIGH P	1	\$	125.00	20%	\$	100.00
726-90-085542	13	DDN1088	LDF4-50A CABLE: 1/2" LDF HELIAX POL	25	\$	3.30	20%	\$	66.00
726-90-085542	13	DDN1090	L4TDM-PSA TYPE N MALE PS FOR 1/2 IN	1	\$	26.00	20%	\$	20.80
726-90-085542	13		L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$	26.00	20%	\$	20.80
726-90-085542	13	DSCC80706	Frog Pond Water Tower RX						
726-90-085542	13	L1705	COLLINEAR OMNI ANTENNA, 6 DBD, LOW	1	\$	3,137.00	20%	\$	2,509.60
726-90-085542	13	DDN1090	LDF4-50A CABLE: 1/2" LDF HELIAX POL	15	\$	3.30	20%	\$	39.60
726-90-085542	13	TDN9289	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	2	\$	26.00	20%	\$	41.60
726-90-085542	13	L3323	221213 CABLE WRAP WEATHERPROOFING	2	\$	22.00	20%	\$	35.20
726-90-085542	13	DDN1077	AVA5-50, COAXIAL CABLE, CORRUGATED	130	\$	8.00	20%	\$	832.00
726-90-085542	13	DSSG7806B2A	7-16IN DIN FEMALE CONNECTOR EZ-FIT	2	\$	39.75	20%	\$	63.60
726-90-085542	13	DSL5SGRIP	SG78-06B2A GROUNDING KIT FOR 7/8 IN	2	\$	22.50	20%	\$	36.00
726-90-085542	13	MDN6817	L5SGRIP 7/8" SUPPORT HOIST GRIP	1	\$	28.50	20%	\$	22.80
726-90-085542	13	DSTXDFMBF	42396A-5 7/8" CABLE HANGER STAINLE	4	\$	27.00	20%	\$	86.40
726-90-085542	13	L1705	RF SPD, 698-2700MHZ DC BLOCK HIGH P	1	\$	125.00	20%	\$	100.00
726-90-085542	13	DDN1088	LDF4-50A CABLE: 1/2" LDF HELIAX POL	25	\$	3.30	20%	\$	66.00
726-90-085542	13	DDN1090	L4TDM-PSA TYPE N MALE PS FOR 1/2 IN	1	\$	26.00	20%	\$	20.80
726-90-085542	13		L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$	26.00	20%	\$	20.80
726-90-085542	13	DSDSCC8504N	Frog Pond Water Tower RX						
726-90-085542	13	L1705	COLLINEAR OMNI ANTENNA, 6 DBD, LOW	1	\$	3,137.00	20%	\$	2,509.60
726-90-085542	13	DDN1090	LDF4-50A CABLE: 1/2" LDF HELIAX POL	15	\$	3.30	20%	\$	39.60
726-90-085542	13	TDN9289	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	2	\$	26.00	20%	\$	41.60
726-90-085542	13	L3323	221213 CABLE WRAP WEATHERPROOFING	2	\$	22.00	20%	\$	35.20
726-90-085542	13	DDN1077	AVA5-50, COAXIAL CABLE, CORRUGATED	130	\$	8.00	20%	\$	832.00
726-90-085542	13	DSSG7806B2A	7-16IN DIN FEMALE CONNECTOR EZ-FIT	2	\$	39.75	20%	\$	63.60
726-90-085542	13	DSL5SGRIP	SG78-06B2A GROUNDING KIT FOR 7/8 IN	2	\$	22.50	20%	\$	36.00
726-90-085542	13	MDN6817	L5SGRIP 7/8" SUPPORT HOIST GRIP	1	\$	28.50	20%	\$	22.80
726-90-085542	13	DSTXDFMBF	42396A-5 7/8" CABLE HANGER STAINLE	4	\$	27.00	20%	\$	86.40
726-90-085542	13	L1705	RF SPD, 698-2700MHZ DC BLOCK HIGH P	1	\$	125.00	20%	\$	100.00
726-90-085542	13	DDN1088	LDF4-50A CABLE: 1/2" LDF HELIAX POL	25	\$	3.30	20%	\$	66.00
726-90-085542	13	DDN1090	L4TDM-PSA TYPE N MALE PS FOR 1/2 IN	1	\$	26.00	20%	\$	20.80
726-90-085542	13		L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$	26.00	20%	\$	20.80
726-90-085542	13	DSDSCC8504N	4 CHANNEL COMBINER	1	\$	9,968.00	20%	\$	7,966.40

726-90-085542	13	DSPA32FFHMS	POWER AMPLIFIER, PA3-2FF-HMS, INPUT POWER: 15-25 WAT	2	\$ 6,970.00	20%	\$ 11,152.00
			Police Tower RX				
726-90-085542	13	DSCC80706	COLLINEAR OMNI ANTENNA, 6 DBD, LOW	1	\$ 3,137.00	20%	\$ 2,509.60
726-90-085542	13	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL	15	\$ 3.30	20%	\$ 39.60
726-90-085542	13	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	2	\$ 26.00	20%	\$ 41.60
726-90-085542	13	TDN9289	221213 CABLE WRAP WEATHERPROOFING	2	\$ 22.00	20%	\$ 35.20
726-90-085542	13	L3323	AVA5-50, COAXIAL CABLE, CORRUGATED	80	\$ 8.00	20%	\$ 512.00
726-90-085542	13	DDN1077	7-16IN DIN FEMALE CONNECTOR EZ-FIT	2	\$ 39.75	20%	\$ 63.60
726-90-085542	13	DSSG7806B2A	SG78-08B2A GROUNDING KIT FOR 7/8 IN	2	\$ 22.50	20%	\$ 36.00
726-90-085542	13	DSL5SGRIP	L5SGRIP 7/8" SUPPORT HOIST GRIP	1	\$ 28.50	20%	\$ 22.80
726-90-085542	13	MDN6817	42396A-5 7/8" CABLE HANGER STAINLE	4	\$ 27.00	20%	\$ 86.40
726-90-085542	13	DSTSXD FMBF	RF SPD, 698-2700MHZ DC BLOCK HIGH P	1	\$ 125.00	20%	\$ 100.00
726-90-085542	13	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL	50	\$ 3.30	20%	\$ 132.00
726-90-085542	13	DDN1088	L4TDM-PSA TYPE N MALE PS FOR 1/2 IN	1	\$ 26.00	20%	\$ 20.80
726-90-085542	13	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$ 26.00	20%	\$ 20.80
726-90-085542	13	DSPA32FFHMS	POWER AMPLIFIER, PA3-2FF-HMS, INPUT POWER: 15-25 WAT	2	\$ 6,970.00	20%	\$ 11,152.00
			Bombing Range Antenna				
726-90-085542	13	DSCC80706	COLLINEAR OMNI ANTENNA, 6 DBD, LOW	1	\$ 3,137.00	20%	\$ 2,509.60
726-90-085542	13	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$ 26.00	20%	\$ 20.80
726-90-085542	13	TDN9289	221213 CABLE WRAP WEATHERPROOFING	1	\$ 22.00	20%	\$ 17.60
726-90-085542	13	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL	40	\$ 3.30	20%	\$ 105.60
726-90-085542	13	DDN1089	L4TDM-PSA TYPE N FEMALE PS FOR 1/2 IN	2	\$ 26.00	20%	\$ 41.60
726-90-085542	13	DSL4SGRIP	4SGRIP SUPPORT HOIST GRIP 1/2" LDF	1	\$ 18.25	20%	\$ 14.60
726-90-085542	13	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL	40	\$ 3.30	20%	\$ 105.60
726-90-085542	13	DDN1088	L4TDM-PSA TYPE N MALE PS FOR 1/2 IN	1	\$ 26.00	20%	\$ 20.80
726-90-085542	13	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2	1	\$ 26.00	20%	\$ 20.80
726-90-085542	13	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VD	2	\$ 163.00	20%	\$ 260.80
726-90-085542	13	DSPA32FFHMS	POWER AMPLIFIER, PA3-2FF-HMS, INPUT POWER: 15-25 WAT	2	\$ 6,970.00	20%	\$ 11,152.00
961-53-085650	32		VOLUME DISCOUNT	1	\$ -	0%	\$ (178,439.10)
925-36-085646	27		Installation/Programming/Project Management/Engineering/	332	\$ 1,635.00	0%	\$ 542,002.50
			Total				\$ 1,200,000.00