

# Dane County Contract Cover Sheet

Revised 06/2021

RES 255  
Significant

BAF # \_\_\_\_\_  
Acct: \_\_\_\_\_  
Mgr: \_\_\_\_\_  
Budget Y/N: \_\_\_\_\_

<b>Dept./Division</b>	Public Safety Communications		
<b>Vendor Name</b>	RACOM	<b>MUNIS #</b>	26968
<b>Brief Contract Title/Description</b>	Provide maintenance for Dane County Public Safety Communications' radio system. This includes software updates, maintenance and 24 hour monitoring of the radio system.		
<b>Contract Term</b>	1/1/2023 - 12/31/2023		
<b>Contract Amount</b>	\$ 642,232.77		

<b>Contract #</b> Admin will assign	14911
<b>Type of Contract</b>	
<input checked="" type="checkbox"/>	Dane County Contract
<input type="checkbox"/>	Intergovernmental
<input type="checkbox"/>	County Lessee
<input type="checkbox"/>	County Lessor
<input type="checkbox"/>	Purchase of Property
<input type="checkbox"/>	Property Sale
<input type="checkbox"/>	Grant
<input type="checkbox"/>	Other

Department Contact Information		Vendor Contact Information	
<b>Name</b>	Luis Bixler	<b>Name</b>	Terry Brennan
<b>Phone #</b>	608-267-1911	<b>Phone #</b>	319-330-0937
<b>Email</b>	bixler.luis@countyofdane.com	<b>Email</b>	terry.brennan@racom.net
<b>Purchasing Officer</b>	Pete Patten		

<b>Purchasing Authority</b>	<input type="checkbox"/> \$11,000 or under – Best Judgment (1 quote required)	
	<input type="checkbox"/> Between \$11,000 – \$37,000 (\$0 – \$25,000 Public Works) (3 quotes required)	
	<input type="checkbox"/> Over \$37,000 (\$25,000 Public Works) (Formal RFB/RFP required)	<b>RFB/RFP #</b>
	<input type="checkbox"/> Bid Waiver – \$37,000 or under (\$25,000 or under Public Works)	
	<input checked="" type="checkbox"/> Bid Waiver – Over \$37,000 (N/A to Public Works)	
	<input type="checkbox"/> N/A – Grants, Leases, Intergovernmental, Property Purchase/Sale, Other	

MUNIS Req.	Req #	Org: DANECOM	Obj: 30291	Proj:	\$ 514,600.00
	Year	Org: DANECOM	Obj: 30292	Proj:	\$ 102,600.00
		Org: DANECOM	Obj: 32548	Proj:	\$ 51,200.00

Budget Amendment	
<input type="checkbox"/>	A Budget Amendment has been requested via a Funds Transfer or Resolution. Upon addendum approval and budget amendment completion, the department shall update the requisition in MUNIS accordingly.

<b>Resolution Required if contract exceeds \$100,000 (\$40,000 PW)</b>	<input type="checkbox"/> Contract does not exceed \$100,000 (\$40,000 Public Works)	<b>Res #</b>	255
	<input checked="" type="checkbox"/> Contract exceeds \$100,000 (\$40,000 Public Works) – resolution required.		<b>Year</b>
	<input checked="" type="checkbox"/> A copy of the Resolution is attached to the contract cover sheet.		

CONTRACT MODIFICATIONS – Standard Terms and Conditions		
<input checked="" type="checkbox"/> No modifications.	<input type="checkbox"/> Modifications and reviewed by: _____	<input type="checkbox"/> Non-standard Contract

APPROVAL	
Dept. Head / Authorized Designee	
Bixler, Luis	Digitally signed by Bixler, Luis Date: 2022.12.02 15:12:35 -06'00'

APPROVAL – Contracts Exceeding \$100,000	
Director of Administration	Corporation Counsel
	

APPROVAL – Internal Contract Review – Routed Electronically – Approvals Will Be Attached			
<b>DOA:</b>	<b>Date In:</b> 12/2/22	<b>Date Out:</b> _____	<input checked="" type="checkbox"/> Controller, Purchasing, Corp Counsel, Risk Management

## Goldade, Michelle

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**From:** Goldade, Michelle  
**Sent:** Friday, December 2, 2022 3:52 PM  
**To:** Hicklin, Charles; Patten (Purchasing), Peter; Pabellon, Carlos; Lowndes, Daniel  
**Cc:** Stavn, Stephanie; Oby, Joe  
**Subject:** Contract #14911  
**Attachments:** 14911.pdf

<b>Tracking:</b>	<b>Recipient</b>	<b>Read</b>	<b>Response</b>
	Hicklin, Charles	Read: 12/2/2022 4:14 PM	Approve: 12/2/2022 4:15 PM
	Patten (Purchasing), Peter		Approve: 12/5/2022 4:17 PM
	Pabellon, Carlos	Read: 12/2/2022 3:57 PM	Approve: 12/5/2022 7:51 AM
	Lowndes, Daniel	Read: 12/5/2022 7:58 AM	Approve: 12/6/2022 11:40 AM
	Stavn, Stephanie	Read: 12/2/2022 4:02 PM	
	Oby, Joe		

Please review the contract and indicate using the vote button above if you approve or disapprove of this contract.

Contract #14911

Department: Public Safety Communications

Vendor: RACOM Corporation

Contract Description: Provide Maintenance for Dane County PSC's Radio System (Res 255)

Contract Term: 1/1/23 – 12/31/23

Contract Amount: \$642,232.77

*Michelle Goldade*

Administrative Manager

Dane County Department of Administration

Room 425, City-County Building

210 Martin Luther King, Jr. Boulevard

Madison, WI 53703

PH: 608/266-4941

Fax: 608/266-4425

TDD: Call WI Relay 711

Please Note: I currently have a modified work schedule...I am in the office Mondays and Wednesdays and working remotely Tuesdays, Thursdays and Fridays in accordance with COVID 19 response guidelines.

**2022 RES- 255**

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**AWARD OF DANECOM RADIO SYSTEM MAINTENANCE CONTRACT**

Public Safety Communications (PSC) utilizes a contractor to perform maintenance, which includes software updates and a 24 hour, 7 day a week network operations center that monitors the health and functionality of the DaneCom radio system. The DaneCom radio system is a critical and essential element of communications between the PSC and field responders. This contract is for one year and is awarded to RACOM beginning on January 1, 2023.

NOW, THEREFORE, BE IT RESOLVED that the Dane County Board of Supervisors does authorize a one year contract to RACOM with the total cost being \$582,667.05 and that the County Executive and County Clerk are authorized to execute the agreement.

**SYSTEM MAINTENANCE AGREEMENT**

THIS SYSTEM MAINTENANCE AGREEMENT (hereinafter "Agreement") is entered into this \_\_\_\_ day of \_\_\_\_, \_\_\_\_, by RACOM Corporation, located at 201 West State Street, Marshalltown, IA, 50158 (hereinafter "RACOM" or "Seller"), and Dane County, Wisconsin located at 210 Martin Luther King Jr Blvd, Madison, WI 53703-3345 (hereinafter "County" or "Customer").

**WHEREAS**, the County owns and operates a two-way, land mobile radio system known as DaneCom which provides mobile communications to public safety agencies at the county and local levels in Dane County; and

**WHEREAS**, the County had purchased the DaneCom system from a vendor known as the L3Harris Corporation; and

**WHEREAS**, RACOM is supplier of two-way, land mobile radio system equipment and services with the capabilities to provide the same software, hardware, and services to support and maintain the DaneCom system; and

**WHEREAS**, RACOM is contractually authorized by L3Harris Corporation to access and resell to customers such as Dane County certain software updates and security updates developed by the L3Harris Corporation as described in this Agreement; and

**WHEREAS**, the County now seeks to enter into a contract with RACOM to supply to the County the necessary software, hardware, and services to support and maintain the DaneCom system; and

**WHEREAS**, a related document to this Agreement is the "Software FX Agreement" which describes L3Harris Software Updates and Security Updates and which shall be in effect only while Customer meets the Software FX Agreement's Conditions for Service; and

**WHEREAS**, in this Agreement, the County or RACOM shall be referred to individually as a "Party" and together as the "Parties";

**NOW THEREFORE**, for and in consideration of the mutual promises of the Parties and other good and valuable consideration, the receipt of which is hereby acknowledged, County and RACOM agree as follows:

**1. SCOPE OF AGREEMENT**

During the term of this Agreement (hereinafter "Term"), Seller agrees to provide Customer with repair and maintenance services and parts, as set forth in Section 2 of this Agreement, to maintain the Customer's radio system equipment provided by L3 Harris Corporation to Customer and listed in Addendum II, Support Matrix to this Agreement. Seller agrees that it shall remain contractually authorized by L3 Harris Corporation to provide such services and parts throughout the Term of the Agreement.

**2. CONDITIONS OF SERVICE**

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Seller shall supply all supervision, labor, service facilities, repair parts, test equipment, and supplies necessary to meet the service requirements stated in this Agreement.

## **2.1 Service Facilities**

Seller shall have a full service maintenance facility available and staffed with factory trained service technicians. The location and staffing level shall be sufficient to meet the service requirements stated in this Agreement. The maintenance facility will be either the Seller's facility or:

General Communications (current ASC)  
2880 Commerce Park  
Fitchburg, WI 53719

## **2.2 Right to Subcontract**

Seller may subcontract service work to authorized service centers that meet the minimum requirements of a service center set forth in the Seller Authorized Service Center Agreement, (ASC). Should any subcontractor fail to perform or their work otherwise proves unsatisfactory, Seller will arrange for continuing maintenance of the equipment by qualified technicians for the duration of this Agreement.

## **2.3 Fixed Equipment Maintenance**

Fixed equipment is defined as those site repeater stations and associated equipment, multi-site coordinator, console electronics equipment, and other fixed equipment, all as listed in Addendum V, 'Equipment and Spares List', attached hereto and incorporated herein by reference, with the exception that equipment which **has** been removed or which has been added to the system as part of the recent (2022) upgrade to SR10.A7 will be excluded or included, respectively. All work on fixed equipment shall be performed at the location of the equipment whenever possible. Technical personnel must respond based on Addendum IV, Table A "Target Response and Restoration Time Matrix".

## **2.4 Mobile Equipment Maintenance**

Mobile equipment is defined as those vehicular mounted radios, personal portable radios, vehicular repeaters, portable radio chargers, radio control stations and other mobile equipment, all as listed in Addendum V, "Equipment and Spares List".

Mobile equipment shall be serviced at the customer building where the vehicle is normally assigned, at the vehicle's work location, or at a Seller's authorized service facility during Normal Working Hours as mutually agreed upon by Seller and the Customer. All mobile service requests must be responded to within two (2) working days from the receipt of the repair request. If the mobile radio cannot be repaired within two (2) hours from the beginning of a service action, the radio unit shall be replaced, if requested, with a customer-provided spare unit. Overtime or Holidays service shall be available twenty-four hours per day, seven days per week. Overtime or Holidays service on mobile equipment, if requested, will be performed at the rate

for Demand Service Rates set forth in Addendum I, System Maintenance Rates, attached hereto and incorporated herein by reference.

**2.5 End of Manufacturing; Notice, Service, and Spare Parts Availability**

a. Notwithstanding the requirements of other services provided by Seller, Seller shall notify Customer in writing as of the date of End of Manufacturing of equipment, and/or End of Availability of software, included in Customer's system. Such notices shall be provided by Seller only to the degree to which Seller is made aware of it by others including the L3Harris Corporation. Notice will be provided electronically to the email address of the contact person(s) provided by Customer. Seller shall not be liable for the failure of Customer to receive notification due to incorrect and outdated contact information, firewall interference, or other technical issues outside of Seller's control.

b. Seller will maintain an adequate stock of spare parts, system-critical modules and mobile and portable radios as a back-up to Customer's spares inventory. The purchase of Customer's spares inventory will be at Customer expense.

c. Seller will hold its L3Harris stock of spares for a period of five (5) years after final production of mobile and portable radios and seven (7) years after final production of fixed equipment. Spares for third party equipment will be available in accordance with the individual manufacturer's end of manufacturing policy. Seller will utilize commercially reasonable efforts to assure third party spare parts and equipment availability to support its maintenance obligations under this Agreement.

**2.6 Working Hours**

Normal Working Hours are defined as 8:00 a.m. to 5:00 p.m. local (Central) time, Monday through Friday, excluding US Federal Public Holidays.

**2.7 Demand Services**

"Demand Services" shall mean service requests that are not included in this Maintenance Agreement as described in Section 2.8, Maintenance Responsibilities, of this Agreement. The installation, removal, or reinstallation of equipment not associated with repair / maintenance efforts as defined in this Agreement, as well as services provided by Seller to accompany Customer's purchase of equipment or software that does not require modification to the terms or prices of Seller-provided maintenance services, shall be considered Demand Service and be performed by Seller, following reasonable notice, and at the Demand Service Rates listed in Addendum I to this Agreement. Service work made necessary because of abuse or neglect not under the control of Seller will be performed at the hourly rate for demand service, plus the purchase of parts. Special work, not otherwise covered, will be performed at Seller prevailing rates. A quote will be provided to Customer at the Demand Service Rates

listed in Addendum I. A purchase order or an addendum, or both shall be executed prior to Seller commencing any work.

## **2.8 Maintenance Responsibilities**

Seller agrees to provide the services and perform the tasks described in Addendum IV, Scope of Work, to the equipment as identified in Addendum II, Support Matrix, and Addendum V, Equipment and Spares List with the exceptions and considerations as listed in Addendum III, Special Conditions as part of this Maintenance Agreement in accordance with the limitations and definitions of Sections 2.7 of this Agreement.

## **2.9 Service Records**

The following service records shall be maintained and made available to the Customer upon request:

Monthly emergency service activity including failure type, corrective action taken and time required to restore service

The results of preventive maintenance tests and inspections shall be provided, upon request by the Customer within 30 days of completion.

Service records for work performed as described in Section 2.9 shall be retained for the duration of this Agreement and any subsequent renewal periods.

## **2.10 Software Updates and SUMS Security Updates**

Seller shall provide technician level installation labor to install and test Software FX Updates and SUMS Security Update provided that Customer subscribes and renews to Seller Software FX services agreement that provides the FX Software Updates and SUMS Security Updates software. In the event that a Software Update released requires a corresponding hardware change, Customer will need to purchase separately the compatible hardware required, engineering services, and program management services. Hardware installation will be performed by technician level labor will be included as a part of the Software Updates and Security Updates under the maintenance agreement.

## **2.11 Database Corrections Programming**

Mobile Equipment or system database corrections will be provided by Seller at no cost to Customer, during the term of this agreement, if the correction is necessary because of an error or omission on Seller's part. Database changes made at Customer's request will be performed at the hourly rates listed in Addendum I to this Agreement.

## **2.12 General**

All services provided under this Agreement are only applicable to the Addendum V Equipment and Spares List sold and provided by Seller to Customer and listed in Addendum V to this Agreement and per the exceptions and considerations listed in Addendum III.

### **2.13 Service Required by Seller's Oversight**

Seller shall be responsible for any service, including repair, replacement, and/or upgrade; required due to Seller error arising from installation or maintenance of Seller-provided software, hardware, or other equipment.

### **2.14 Additional Purchases**

- a. It may be in the best interest of the County and other governmental agencies within the county to purchase from RACOM other communication products, services, and solutions that expand, enhance, or otherwise improve the DaneCom communication system. Such purchases may involve/include
  - Infrastructure equipment such as radio base stations, antenna systems, radio site power systems, etc.
  - User radios including hand-held, in-car, or desk-mounted radios
  - Site-to-site networking/connectivity such as microwave backhaul or other interface technologies
  - Radio dispatch consoles and associated peripherals (including electronics and furniture)
  - Consultation, implementation, installation, and programming services
  - Software applications to enhance end-user or system-administration operations
  - Other communication and public safety and public service products and services
- b. Governmental agencies within Dane County, including the County and each municipality, may, through this Agreement and at their option purchase such products, services, and solutions. Purchases shall be at prices that reflect RACOM's published list prices less the discount levels included in Attachment A to this Agreement or at prices that are agreed-to by both Parties to be more advantageous to the County (or municipality).
- c. Prior to execution of any such additional purchase, RACOM and the County (or municipality) shall develop and mutually agree to in writing: i) a Scope of Work that defines each Party's deliverables and responsibilities, ii) a price quotation that clearly demonstrates pricing levels as described herein, and iii) any additional terms or conditions that the Parties agree are relevant to the purchase. The written documentation for such additional purchases shall be executed by both Parties and shall become additional attachments to this Agreement.

- d. RACOM shall not decrease the levels of discount included in Attachment A without providing 90 days prior notice to the County.
- e. Exclusions to the available levels or discount for products, services, or solutions are noted in Addendum I.

### **3. CUSTOMER FINANCIAL OBLIGATIONS**

- 3.1** Customer shall pay the annual maintenance fee as set forth in Addendum I to this Agreement in advance, on or before the effective date of this Agreement as set forth in Section 5.1 hereof . Fees for demand services, as set forth in Addendum I to this Agreement, are payable within thirty (30) days of receipt of Seller's invoice.
- 3.2** Seller may at any time hereafter revise the rates set forth in Addendum I by giving Customer written notice thereof not later than ninety (90) day prior to the expiration of a yearly period, provided that the revised rates are mutually agreed upon in writing and said revised rates shall be effective for the next yearly period, unless either party exercises its option to terminate the Agreement.
- 3.3** Any other payments under this Agreement are due within thirty (30) days of receipt of Seller's invoice.
- 3.4** All late payments under this Agreement shall bear interest at a rate of one and one-half percent (1.5%) per month.

### **4. WARRANTY**

- 4.1** Seller warrants that all services performed under this Agreement will be done in an efficient and workmanlike manner. Under no circumstances will Seller's liability to Customer exceed the amounts paid by Customer under this Agreement for the applicable service that causes the Customer's claim. IN NO EVENT SHALL SELLER BE LIABLE TO THE CUSTOMER FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFIT OR REVENUES, LOSS OF USE OF THE EQUIPMENT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE GOODS, FACILITIES, SERVICES OR REPLACEMENT POWER, DOWNTIME COSTS OR CLAIMS OF CUSTOMER'S CLIENTS, IF ANY, FOR SUCH DAMAGES.
- 4.2** THE WARRANTY SET FORTH IN SECTION 4.1 ABOVE IS SELLER'S SOLE WARRANTY UNDER THIS AGREEMENT AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES WHETHER WRITTEN OR ORAL, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- 4.3** **Patents, Trademarks, Information**

Nothing in this Agreement shall be construed as:

- a. A warranty or representation by Seller that any advice provided under this Agreement is or will be free from claims of infringement of patents of third parties; or
- b. Conferring a right to Customer to use in advertising, publicity or otherwise any trademark or trade name of Seller; or

#### **4.4 General**

- a. Radio systems are subject to degradation of service from natural phenomena such as so-called “skip” interference and other causes beyond the reasonable control of Seller such as motor ignition and other electrical noise as well as interference from other users assigned by the FCC to the same or adjacent frequencies. Seller cannot be responsible for interference or disruption of service caused by operation of other radio systems or by natural phenomena or by motor ignition or other interference over which there is no reasonable control. Such foregoing interference and noise can be minimized by the addition of corrective devices (at Customer’s expense) adapted for particular locations and installations. Seller will investigate interference complaints (at the rates specified in Addendum I to this Agreement) and make recommendations as to the use of such devices; however, total freedom from noise and interference cannot be guaranteed.
- b. Seller does not assume responsibility for signal strength unless the deficiency is the result of substandard equipment maintenance.
- c. If, due to the action of regulatory authorities, changes to the equipment become necessary, such changes will be performed by Seller upon request at the expense of Customer.

#### **5. TERM AND TERMINATION**

- 5.1** The services under this Agreement will be provided by Seller to Customer for an initial one year period. The Parties shall agree in writing prior to the beginning of a new calendar year to continue this Agreement and such written agreement shall include any changes to its scope or pricing.
- 5.2** In the event that Customer fails to make any overdue payments due to Seller under this Agreement within fifteen (15) days after receipt of written notice from Seller, Seller may at its option immediately thereafter terminate this Agreement.
- 5.3** In the event of any other default under this Agreement, either Customer or Seller shall give the other party written notice describing the default and a thirty (30) day period to correct the default. This Agreement may then be immediately canceled if the default is not corrected prior to the end of the thirty (30) day period.

#### **6. LIMITATION OF LIABILITY**

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- 6.1** The total liability of seller, including its subcontractors or suppliers, on any and all claims, whether in contract, warranty, tort (including negligence or patent infringement) or otherwise, arising out of, connected with, or resulting from the performance or non-performance of any agreement resulting herefrom or from the manufacture, sale, delivery, resale, repair, replacement or use of any equipment or the furnishing of any service, shall not exceed the price allocable to the equipment or service which gives rise to the claim. Except as to title any such liability shall terminate upon the expiration of the applicable warranty period specified in the article entitled “warranty”.
- 6.2** IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE OR PATENT INFRINGEMENT) OR OTHERWISE, SHALL SELLER, OR ITS SUBCONTRACTORS OR SUPPLIERS, BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFIT OR REVENUES, LOSS OF USE OF THE EQUIPMENT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE GOODS, FACILITIES, SERVICES OR REPLACEMENT POWER, DOWNTIME COSTS OR CLAIMS OF BUYERS CUSTOMERS FOR SUCH DAMAGES. IF BUYER TRANSFERS TITLE TO, OR LEASES THE EQUIPMENT SOLD HEREUNDER TO, OR OTHERWISE PERMITS OR SUFFERS USE BY, ANY THIRD PARTY, BUYER SHALL OBTAIN FROM SUCH THIRD PARTY A PROVISION AFFORDING SELLER AND ITS SUBCONTRACTORS AND SUPPLIERS THE PROTECTION OF THE PRECEDING SENTENCE.
- 6.3** Any action for any claim of any kind for any loss or damages arising out of, connected with, or resulting from the performance, non-performance or breach of the Agreement, or from the manufacture, sale, delivery, installation, technical direction or installation, resale, repair, replacement, licensing or use of any Hardware, Software or the furnishing of any Services, shall be commenced within six (6) years after the cause of action occurred or it shall be deemed waived or barred.
- 6.4** Seller shall not be liable for costs incurred for repair and/or replacement of equipment that fails or becomes inoperative due to negligence on the part of the user, liquid intrusion, lightning damage, user installations, user removals and/or acts of God, acts of terrorism or work performed by third parties not authorized by Seller to perform work on Seller equipment.
- Seller shall not be liable for costs incurred for correcting, replacing or repairing equipment damaged and/or data corruption induced and/or caused by 3<sup>rd</sup> party personnel or other equipment / systems not provided by Seller.
- 6.5** The provisions of this Section, LIMITATION OF LIABILITY, shall apply notwithstanding any other provisions of this Contract and any other agreement.

- 6.6 The provisions of this Section, LIMITATION OF LIABILITY, shall survive the expiration or termination of this Contract.

7. GENERAL PROVISIONS

- 7.1 All notices under this Agreement shall be in writing and shall be deemed to have been duly given upon being delivered personally or upon receipt if mailed by certified mail, return receipt requested. Notices shall be sent to the representatives named below or any subsequent representative for which notice was provided pursuant to this section.

**Seller:**

RACOM Corporation  
Attn: Alex Venter, CIO  
201 W. State St  
Marshalltown, IA 50158  
888-752-1053 / 515-745-4056  
Alex.Venter@racom.net

**Customer:**

Dane County, Wisconsin  
210 Martin Luther King Jr Blvd  
Room 109  
Madison, WI 53703-3345

- 7.2 This Agreement shall be interpreted and the legal relations between the parties determined in accordance with the laws of the State of Wisconsin. The invalidity, in whole or in part, of any provision of this Agreement shall not affect the validity of enforceability of any other provisions thereof.
- 7.3 Seller shall not be responsible for delays or failures in performance under this Agreement that are due to causes beyond its reasonable control including, but not limited to, acts of God, war, acts of terrorism, fires, severe weather, floods, strikes, blackouts, embargoes or work performed on Seller equipment by third parties not authorized by Seller to perform such work. In the event such delays or failures interrupt Seller's services to Customer, Seller shall promptly notify Customer of the circumstances and the anticipated delay.
- 7.4 This Agreement represents the entire understanding of the parties with respect to the subject matter hereof and this Agreement supersedes and replaces all prior Agreements and understandings, either oral or written, regarding the subject hereof.
- 7.5 This Agreement cannot be amended, modified or any provisions waived orally. All amendments and modifications must be in writing and signed by both parties. All waivers must be provided in writing by the party waiving their rights under this Agreement.
- 7.6 This Agreement may not be assigned without the prior written consent of the other party, which consent shall not be unreasonably withheld. However, Seller may: (i) assign all of its rights, obligations and liabilities under this Agreement to any subsidiary; or (ii) assign its rights to monies due or payable under this Agreement; Seller shall provide Customer with written notice of any such assignment. Seller's assignment of monies due or payable under the Agreement will not relieve Seller of any obligations or responsibilities to Customer hereunder.

7.7 INSURANCE & INDEMNIFICATION:

A. SELLER shall indemnify, hold harmless and defend CUSTOMER, its boards, commissions, agencies, officers, employees and representatives against any and all liability, loss (including, but not limited to, property damage, bodily injury and loss of life), damages, costs or expenses which CUSTOMER, its officers, employees, agencies, boards, commissions and representatives may sustain, incur or be required to pay by reason of SELLER's furnishing the services or goods required to be provided under this Agreement, provided, however, that the provisions of this paragraph shall not apply to liabilities, losses, charges, costs, or expenses caused by or resulting from the acts or omissions of CUSTOMER, its agencies, boards, commissions, officers, employees or representatives. Any failure on the part of the SELLER to comply with reporting or other provisions of its insurance policies shall not affect this SELLER's obligations under this paragraph. CUSTOMER reserves the right, but not the obligation, to participate in defense without relieving SELLER of any obligation under this paragraph. The obligations of SELLER under this paragraph shall survive the expiration or termination of this Agreement.

B. In order to protect itself and CUSTOMER, its officers, boards, commissions, agencies, agents, volunteers, employees and representatives under the indemnity provisions of the subparagraph above, SELLER shall, at SELLER's own expense, obtain and at all times during the term of this Agreement keep in full force and effect the insurance coverages, limits, and endorsements listed below. When obtaining required insurance under this Agreement and otherwise, SELLER agrees to preserve CUSTOMER's subrogation rights in all such matters that may arise that are covered by SELLER's insurance. Neither these requirements nor the CUSTOMER's review or acceptance of SELLER's certificates of insurance is intended to limit or qualify the liabilities or obligations assumed by the SELLER under this Agreement. The Customer expressly reserves the right to require higher or lower insurance limits where Customer deems necessary.

1. Commercial General Liability.

SELLER agrees to maintain Commercial General Liability insurance at a limit of not less than \$1,000,000 per occurrence. Coverage shall include, but not be limited to, Bodily Injury and Property Damage to Third Parties, Contractual Liability, Personal Injury and Advertising Injury Liability, Premises-Operations, Independent SELLERS and Subcontractors, and Fire Legal Liability. The policy shall not exclude Explosion, Collapse, and Underground Property Damage Liability Coverage. The policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations.

2. Professional Liability Insurance.

If SELLER renders professional services (such as medical, architectural or engineering services) under this Agreement, then SELLER shall provide and maintain two million dollars (\$2,000,000.00) of professional liability insurance. If such policy is a "claims made" policy, all renewals during the life of the Agreement shall include "prior acts coverage" covering at all times all claims made with respect to SELLER's work performed under the Agreement. This Professional Liability coverage must be kept in force for a period of six (6) years after the services have been accepted by CUSTOMER

3. Commercial/Business Automobile Liability Insurance.

If applicable to the services covered by this Agreement, SELLER shall provide and maintain commercial general liability and automobile liability insurance at a limit of not less than \$1,000,000 per occurrence. Coverage for commercial general liability and automobile liability insurance shall, at a minimum, be at least as broad as Insurance Services Office (“ISO”) Commercial General Liability Coverage (Occurrence Form CG 0001) and ISO Business Auto Coverage (Form CA 0001), covering Symbol 1 (any vehicle).

4. Environmental Impairment (Pollution) Liability

If SELLER will be transporting waste or will be disposing of waste or products under this Agreement, then SELLER agrees to maintain Environmental Impairment (Pollution) Liability insurance at a limit of not less than \$1,000,000 per occurrence for bodily injury, property damage, and environmental cleanup costs caused by pollution conditions, both sudden and non-sudden. This requirement can be satisfied by either a separate environmental liability policy or through a modification to the Commercial General Liability policy. Evidence of either must be provided.

5. Workers’ Compensation.

SELLER agrees to maintain Workers Compensation insurance at Wisconsin statutory limits.

6. Umbrella or Excess Liability.

SELLER may satisfy the minimum liability limits required above for Commercial General Liability and Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum Per Occurrence limit of liability under the Umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest “Each Occurrence” limit for the Commercial General Liability and Business Auto Liability. SELLER agrees to list DANE COUNTY as an “Additional Insured” on its Umbrella or Excess Liability policy.

C. Required provisions.

1. Insurer’s Requirement

All of the insurance shall be provided on policy forms and through companies satisfactory to CUSTOMER, and shall have a minimum AM Best’s rating of A- VIII

2. Additional Insured.

CUSTOMER, its elected and appointed officials, officers, employees or authorized representatives or volunteers are to be given additional insured status (via ISO endorsement CG 2010, CG 2033, or insurer’s equivalent for general liability coverage) as respects: liability arising out of activities performed by or on behalf of SELLER; products and completed operations of SELLER; premises occupied or used by SELLER; and vehicles owned, leased, hired or borrowed by SELLER. The coverage shall contain no special limitations on the scope of protection afforded to CUSTOMER, its elected and appointed officials, officers, employees or authorized representatives or volunteers. Except for the workers compensation policy, each

insurance policy shall contain a waiver of subrogation endorsement in favor of CUSTOMER.

3. Seller's Insurance Shall be Primary

For any claims related to this Agreement, SELLER's insurance shall be primary insurance with respect to CUSTOMER, its elected and appointed officials, officers, employees or authorized representatives or volunteers. Any insurance, self-insurance, or other coverage maintained by CUSTOMER, its elected and appointed officers, officials, employees or authorized representatives or volunteers shall not contribute to the primary insurance. SELLER's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability

4. Cancellation Notice

Each insurance policy required by this Agreement shall state, or be endorsed so as to the state, that coverage shall not be canceled by the insurance carrier or the SELLER, except after sixty (60) days (ten (10) days for non-payment of premium) prior written notice by U.S. mail has been given to CUSTOMER.

5. Evidences of Insurance.

Prior to execution of the Agreement, SELLER shall file with CUSTOMER a certificate of insurance (Accord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this Agreement. Such evidence shall include an additional insured endorsement signed by the insurer's representative. Such evidence shall also include confirmation that coverage includes or has been modified to include all required provisions as detailed herein.

6. Sub-Contractors.

In the event that SELLER employs sub-contractors as part of this Agreement, it shall be the SELLER's responsibility to require and confirm that each sub-contractor meets the minimum insurance requirements specified above.

D. The parties do hereby expressly agree that CUSTOMER, acting at its sole option and through its Risk Manager, may waive any and all requirements contained in this Agreement, such waiver to be in writing only. Such waiver may include or be limited to a reduction in the amount of coverage required above. The extent of waiver shall be determined solely by CUSTOMER's Risk Manager taking into account the nature of the work and other factors relevant to CUSTOMER's exposure, if any, under this Agreement.

7.8 During the term of this Agreement, Seller agrees not to discriminate on the basis of age, race, ethnicity, religion, color, gender, disability, marital status, sexual orientation, national origin, cultural differences, ancestry, physical appearance, arrest record or conviction record, military participation or membership in the national guard, state defense force or any other reserve component of the military forces of the United States, or political beliefs against any person, whether a recipient of services (actual or potential) or an employee or applicant for employment. Such equal opportunity shall include but not be limited to the following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, rates of pay, and any

other form of compensation or level of service(s). Seller agrees to post in conspicuous places, available to all employees, service recipients and applicants for employment and services, notices setting forth the provisions of this paragraph. The listing of prohibited bases for discrimination shall not be construed to amend in any fashion state or federal law setting forth additional bases, and exceptions shall be permitted only to the extent allowable in state or federal law.

7.9 Civil Rights Compliance

A. If SELLER has 20 or more employees and receives \$20,000 in annual contracts with CUSTOMER, the SELLER shall submit to CUSTOMER a current Civil Rights Compliance Plan (CRC) for Meeting Equal Opportunity Requirements under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title VI and XVI of the Public Service Health Act, the Age Discrimination Act of 1975, the Omnibus Budget Reconciliation Act of 1981 and Americans with Disabilities Act (ADA) of 1990. SELLER shall also file an Affirmative Action (AA) Plan with CUSTOMER in accordance with the requirements of chapter 19 of the Dane County Code of Ordinances. SELLER shall submit a copy of its discrimination complaint form with its CRC/AA Plan. The CRC/AA Plan must be submitted prior to the effective date of this Agreement and failure to do so by said date shall constitute grounds for immediate termination of this Agreement by CUSTOMER. If an approved plan has been received during the previous CALENDAR year, a plan update is acceptable. The plan may cover a two-year period. Providers who have less than twenty employees, but who receive more than \$20,000 from the CUSTOMER in annual contracts, may be required to submit a CRC Action Plan to correct any problems discovered as the result of a complaint investigation or other Civil Rights Compliance monitoring efforts set forth herein below. If SELLER submits a CRC/AA Plan to a Department of Workforce Development Division or to a Department of Health and Family Services Division that covers the services purchased by CUSTOMER, a verification of acceptance by the State of SELLER's Plan is sufficient.

B. SELLER agrees to comply with the CUSTOMER's civil rights compliance policies and procedures. SELLER agrees to comply with civil rights monitoring reviews performed by the CUSTOMER, including the examination of records and relevant files maintained by the SELLER. SELLER agrees to furnish all information and reports required by the CUSTOMER as they relate to affirmative action and non-discrimination. SELLER further agrees to cooperate with CUSTOMER in developing, implementing, and monitoring corrective action plans that result from any reviews.

C. SELLER shall post the Equal Opportunity Policy, the name of SELLER's designated Equal Opportunity Coordinator and the discrimination complaint process in conspicuous places available to applicants and clients of services, applicants for employment and employees. The complaint process will be according to CUSTOMER's policies and procedures and made available in languages and formats understandable to applicants, clients and employees. SELLER shall supply to CUSTOMER's Contract Compliance Officer upon request a summary document of all client complaints related to perceived discrimination in service delivery. These

documents shall include names of the involved persons, nature of the complaints, and a description of any attempts made to achieve complaint resolution.

D. SELLER shall provide copies of all announcements of new employment opportunities to CUSTOMER's Contract Compliance Officer when such announcements are issued.

E. If SELLER is a government entity having its own compliance plan, SELLER'S plan shall govern SELLER's activities.

7.10. Compliance with Fair Labor Standards

A. Reporting of Adverse Findings

During the term of this Agreement, SELLER shall report to the Customer Contract Compliance Officer, within ten (10) days, any allegations to, or findings by the National Labor Relations Board (NLRB) or Wisconsin Employment Relations Commission (WERC) that SELLER has violated a statute or regulation regarding labor standards or relations,. If an investigation by the Contract Compliance Officer results in a final determination that the matter adversely affects SELLER'S responsibilities under this Agreement, and which recommends termination, suspension or cancellation of this agreement, the Customer may take such action.

B. Appeal Process

SELLER may appeal any adverse finding by the Contract Compliance Officer as set forth in Dane County Ordinances Sec. 25.08(20)(c) through (e).

C. Notice Requirement

SELLER shall post the following statement in a prominent place visible to employees: "As a condition of receiving and maintaining a contract with Dane County, this employer shall comply with federal, state and all other applicable laws prohibiting retaliation for union organizing."

7.11. Financial Interest Prohibited.

Under s. 946.13, Wis. Stats. CUSTOMER employees and officials are prohibited from holding a private pecuniary interest, direct or indirect, in any public contract. By executing this Agreement, each party represents that it has no knowledge of a CUSTOMER employee or official involved in the making or performance of the Agreement that has a private pecuniary interest therein. It is expressly understood and agreed that any subsequent finding of a violation of s. 946.13, Wis. Stat. may result in this Agreement being voided at the discretion of the CUSTOMER.

*[End text this page]*

IN WITNESS WHEREOF, intending to be legally bound, Seller and Customer have executed this Agreement as of the dates set forth below.

**RACOM CORPORATION**

**COUNTY OF DANE, WISCONSIN**

By: 

By: \_\_\_\_\_

Name: Terry Brennan

Name: Joseph T. Parisi

Title: Vice President

Title: Dane County Executive

Date: 11/22/22

Date: \_\_\_\_\_

**ADDENDUM I**

**SYSTEM MAINTENANCE RATES & ADDITIONAL PURCHASE DISCOUNTS**

**A. MAINTENANCE RATES FOR 2023**

\$ 514,547.77	Maintenance Rate
\$ 25,095.00	NOC Service Rate
<b>\$539,642.77</b>	<b>Total</b>

**B. DEMAND SERVICE HOURLY RATES (Applies to Technician level maintenance services)**

a. Technician	\$150
b. Engineering	\$175
c. Project Management	\$200
d. Overtime	1.5X
e. Sundays/Holidays	1.5X

**C. DATABASE CORRECTION RATES**

Hourly Rate: \$150 an hour

**D. LEVELS OF DISCOUNT FOR ADDITIONAL PURCHASES**

- 25% off Land Mobile Radio Equipment, except “vendor” products which are offered the original equipment manufacturer but which are vendor-branded, third-party products. Such products are non-discountable.
- 25% off In-vehicle Warning Lights
- 15% off Microwave
- 10% off Mimomax Backhaul
- 10% off other Dispatch Consoles, RF solutions and Accessories
- 10% off NextGen Call-Taking Solutions
- 10% off Mapping, MIS, CAD and EMD solutions
- 10% off Networking and Recording Solutions
- 10% off Security, Video and Data Solutions
- 5% off PSAP/Dispatch Furniture
- 5% off Netclock and Timing solutions
- 5% off Fire Alerting Solutions
- 5% off all other Solutions offered by RACOM

Exclusions:

- Manufacturers sometime incorporate 3rd party hardware and software solutions that are designated as limited or non-discountable and will not be eligible for these discounts. Items will not be discounted if the discount results in a price below Seller's cost
- Although rare, there may also be occasions where Seller is not authorized by the manufacturers to sell at these discount levels. Seller shall submit to Buyer documentation from the manufacturer that confirms RACOM is not authorized by the manufacturer to provide the discount.

**ADDENDUM II**  
**SUPPORT MATRIX**

This matrix correlates which equipment within the System is to receive which services as described in this Agreement. Only Equipment sold by L3Harris or Seller and purchased by Dane County is included.

An “X” in a box within the matrix is to be taken as a requirement that the equipment of that row is to be covered by the service of that column. A blank box within the matrix to be taken as a statement that the equipment of that row is not to be covered by the service of that column.

The listing of an item of equipment is to include any associated L3Harris- or Seller-provided external items that are required for that component’s functionality (for example, “MASTR V” repeater stations rely on external power supplies and fan shelves for their functionality, therefore those external items shall be covered by the same services that are identified for the MASTR V repeater stations.).

See Addendum III for Special Conditions.

NOC Services will be supported utilizing a spreadsheet to be mutually developed and mutually agreed to by Dane County and Seller. The spreadsheet (currently NOC Ver17; to be mutually revised and approved when/ and as necessary) defines the equipment conditions to be monitored and the severity and the reporting process of alarms from that equipment.

All equipment listed in the matrix below is covered by the services of Service Reports, Maintenance Meetings, Quarterly Meetings, and Other Maintenance Services.

SERVICE =>								
SYSTEM & EQUIPMENT	SUMS	FX	TAC	Fixed Equipment Maintenance (OnSite Response)	Mobile Equipment Maintenance	Depot Maintenance	Annual Preventative Maintenance	Annual Consultation Service
<b>COMMON SITE EQUIPMENT</b>								
RF Site Radio Antennas			X	X (Note 2)		(Note 1)		(Note 9)
Radio Transmission Lines			X	X			X	X
GPS Antennas & GPS Transmission Lines			X	X (Note 2)		(Note 1)	X (Note 3)	X
Radio & GPS Lightning Protection			X	X		(Note 1)	X (Note 3)	X
RF Combiners, Multicoupler, & Filters			X	X		X	X	X
Site Batteries			X					
AC-DC Inverters			X	X		X	X	X
Uninterruptable Power Supplies			X	X		X	X	X
Backup Generators & Transfer Switches			X	X		X	X (Note 10)	X
Backup Generator Fuel Sources			X	X				X
Site Monitoring Equipment (NetSentry workstations, the equipment that monitors site conditions/alarms)	X (Note 4)	X	X	X		X (Note 4)	X	X
HVAC Units			X	X		(Note 5)	X	X
Site AC Power			X	X (Note 7)				X
Harris-Provided Shelters				X (Note 8)			X (Note 3)	X
<b>BACKHAUL &amp; NETWORK</b>								
Microwave Dishes			X	X		(Note 1)	X (Note 3)	X
Microwave Transmission Lines			X	X			X	X
Microwave Lightning Protection			X	X		X	X	X
Microwave Dehydrators			X	X		X	X	X
Microwave Radios			X	X		X	X	X
Microwave Networking / MPLS Routers/7705	(Note 11)	(Note 11)	X	X		X		X
Microwave Network Management Server (TSM-8000)	(Note 11)	(Note 11)	X	X		X		X
<b>COMMON SYSTEM EQUIPMENT</b>								
System Entry/Exit Firewalls	(Note 11)	(Note 11)	X	X		X		X
Routers & Switches	(Note 4)	(Note 4)	X	X		X (Note 4)		X

SERVICE =>								
SYSTEM & EQUIPMENT	SUMS	FX	TAC	Fixed Equipment Maintenance (OnSite Response)	Mobile Equipment Maintenance	Depot Maintenance	Annual Preventative Maintenance	Annual Consultation Service
Symphony Dispatch Console Stations Including Computer, Display, Speakers, Peripheral-Audio Distribution Controller, Jackboxes, Footswitches, & All Associated Software	X	X	X	X		X		X
Dispatch iRIM Interfaces			X	X		X		X
Dispatch iRIM Gateways			X	X		X		X
Dispatch iRIM EFJohnson Radios			X	X		X		X
Dispatch Backup Control Station Radios			X	X	X	X	X	X
VIDA Conventional Gateways (UACs)	X	X	X	X		X		X
<b>VHF P25 SYSTEM EQUIPMENT</b>								
Primary Controller NSS including VNIC, RNM, Storage, RSM, UAS, Transcoder, Active Directory, McAfee ePO, Device Manager, Encompass, & Activity Warehouse Services	X	X	X	X		X		X
Backup Controller NSS including VNIC, RSM, Storage UAS, Transcoder, Active Directory, Device Manager, Encompass, & Activity Warehouse Services	X	X	X	X		X		X
MME Servers		X	X	X		X		X
ISSI Gateways	X	X	X	X				X
BeOn Servers	X	X	X	X				X
Primary Voting Control Point (Control Points)		X	X	X		X	X	X
Backup Voting Control Point (Control Points)		X	X	X		X	X	X
MASTR V Repeaters		X	X	X		X	X	X
GPS-based Site Clocks (Non-Rb)		X	X	X		X (Note 4)		X
GPS-based Site Clocks (Rb)		X	X	X		X (Note 4)		X
<b>VHF MUTUAL AID SYSTEM EQUIPMENT</b>								
MASTR III Repeaters		X	X	X		X	X	X
Network First Gateways (UACs)	X	X	X	X		X		X
<b>VHF ANALOG TACTICAL SYSTEM EQUIPMENT</b>								
MASTR III Repeaters		X	X	X		X	X	X
Network First Gateways (UACs)	X	X	X	X		X		X

SERVICE =>	SUMS	FX	TAC	Fixed Equipment Maintenance (OnSite Response)	Mobile Equipment Maintenance	Depot Maintenance	Annual Preventative Maintenance	Annual Consultation Service
<b>SYSTEM &amp; EQUIPMENT</b>								
M7300 Mobile Radios		X	X	X	X		X	X
<b>VHF PAGING SYSTEM EQUIPMENT</b>								
MASTR III Repeaters		X	X	X		X	X	X
Network First Gateways (UACs)	X	X	X	X		X		X
Zetron 640 Paging Controller			X	X		X		X
Convex Page Buffer			X	X		X		X
Paging Backup Control Station			X	X	X		X	X
M7300 Mobile Radios			X	X	X		X	X
<b>UHF SIREN SYSTEM EQUIPMENT</b>								
MASTR III Repeaters		X	X	X		X	X	X
<b>SUBSCRIBER RADIOS</b>								
Subscriber Radios			X		X			X
<b>SPARE EQUIPMENT</b>								
Spare Equipment		X	X			X		X

Special Note:

Note 1 – Covered by Customer owned spare parts (not a repairable part)

Note 2 – Does not include tower climbs per Addendum III Special Conditions

Note 3 – On-site visual inspection only

Note 4 – The following equipment is recognized as being end-of-life and therefore the identified services for them shall be provided according to Section 2.5: Rubidium-based GPS site clocks, CISCO routers and switches, NetSentry workstations.

Note 5 – 3<sup>rd</sup> Party Civil equipment repair service, parts to be provided by customer

Note 6 – Not Applicable

Note 7 – ASC will dispatch on predetermined AC power failures reported by RNM (meeting Dane County requirements) and will be Demand billed to Dane County if incident is unrelated to L3Harris shelter equipment power failure. If deemed to be shelter power equipment failure this would be covered under maintenance agreement.

Note 8 – Shelter support only includes concrete walls, concrete floors, roof, and doors (all others are not supported)

Note 9 – Replacement or upgrade to be discussed at time of major/platform upgrade

Note 10 – Generator also includes quarterly load test

Note 11 – If L3Harris issues an Important Product Notice (IPN) for a security patch or software update for a third-party product which L3Harris has tested on the same System Release level of software that is installed on Customer' System, ASC shall contact Customer to develop an installation schedule and plan for the patch and shall install the patch or update on Customer's system. This service shall be performed as long as the third party product has an active support agreement allowing for the installation of the subject security or software update.

## ADDENDUM III

### SPECIAL CONDITIONS

#### 1.0 Maintenance Special Exclusions

These items listed below are specifically excluded from coverage by this Maintenance Agreement.

Batteries of any type. Batteries are considered a consumable item and are not covered by this agreement.

- Tower climbs
- Fences
- Lawn
- Driveways
- Fuel for Generators
- Smoke alarms, exit signs
- Consumable lighting products not requiring an electrician (e.g., bulbs)

#### 2.0 Specialized Site Access

On-site response times are based on the assumption that the site is accessible by normal transportation methods and vehicles. On-site response time requirements exclude site locations that require extensive drive time due to traffic conditions or site locations where specialized vehicles (snowcat, helicopter, etc) are required. In addition, Customer is responsible to ensure that all necessary clearances, escorts, or other special requirements have been met in advance to allow technicians prompt access to any equipment requiring service that may be located in a secured or limited access area of the Customer's facilities.

#### 3.0 EQUIPMENT LISTS

All services provided under this Agreement are only applicable to the land mobile radio products and systems sold and provided by L3Harris or Seller to Customer and referenced in Addendum V Equipment and Spares List to this Agreement with the exception that equipment which been removed or which has been added to the system as part of the recent (2022) upgrade to SR10.A7 will be excluded or included, respectively.

Customer may add or delete equipment items to the list of maintained equipment by notifying the Seller in writing. As additional items are purchased they will be supported by Seller and they will be added to this Agreement at least annually during the 4<sup>th</sup> quarter of each year. Any changes to this Agreement will be through an Amendment document completed by Seller and provided to Customer for review, approval and signature. The Amendment document will provide revised Addendum II, "Support Matrix" and or revised Addendum V, "Equipment and Spares List" and revised pricing structure, and any necessary changes to fully incorporate the additional items into the Agreement.

**ADDENDUM IV**  
**SCOPE OF WORK**

## **Maintenance Support**

### **Maintenance**

#### **Service Initiation**

Service shall commence as soon as Dane County calls or emails Seller's Net Control . Seller's technicians or local subcontractor will be on-call 24 hours a day to respond based on Table A Response and Restoration to all service requests.

#### **Escalation Plan**

1. The Escalation Plan: To be used following Customer's Point of Contact notifying RACOM or General Communications.
  - a. Step 1: Seller's Net Control
    - i. If Net Control has not acknowledged the notification based on Table A Recommended Response and Restoration or if Net Control has acknowledged the notification but has not responded to the Customer's call per the Response and Resolution Time Matrix below, Customer may proceed to Step 2.
  - b. Step 2: RACOM Supervisor
    - i. Supervisor: Customer will call a designated phone number for the Supervisor, identified in Attachment D ("Point of Contact, Notice, and Key Contacts").
    - ii. If after fifteen (15) minutes from Customer's call to Supervisor, the Technician or the Supervisor has not responded to the Customer's call, Customer may proceed to Step 3.
  - c. Step 3: RACOM President
    - i. Regional Service Manager: Customer will contact RACOM's President, identified in Attachment D ("Point of Contact, Notice, and Key Contacts").

**Attachment D**

Point of Contact	Title	Escalation Step	Contact Number / Email
RACOM Net Control	Net Control / Network Operation Center (NOC)	Service Initiation	(888) 752-1070 netcontrol@racom.net
Alex Venter	RACOM CIO	Step 2	(888) 752-1053 Office, (515) 745-4056 cell alex.ventner@racom.net
Mike Miller	RACOM President	Step 3	(888) 752-1067 Office (641) 751-6453 cell Mike.miller@racom.net

**Table A –Recommended Response and Restoration Time Matrix**

Table A is based on local technical support (not NOC and TAC response times) and may require Seller-identified spares, (discussed at minimum per Quarterly Meeting and/or during Annual Consultation Service) and or customer-provided spares in order to meet restoration times. If restoration requires a spare and a spare is not available, service will resume when spares are available or when the failed equipment is repaired and returned.

- Response Time is defined as the time from notification of a problem (to local technical support from customer or NOC) to the time of first involvement in correction/resolution of problem and: i.) for Levels 1 and 2: notification (acknowledgement) of involvement to customer or ii.) for Level 3 and Level 4: respond to Dane County with technician who is working trouble ticket and high-level plan and date they will be working on the trouble ticket.
- On-Site Response Time is defined as the time from determination that onsite presence is required to resolve problem to the time of arrival of a technician at the location of the reported problem.
- Restoration Time is defined as the time from notification of a problem (to local technical support from customer) or from time of generation of equipment of site alarm to the time of restoration of equipment or system functionality.

SEVERITY LEVEL	DESCRIPTION	RESPONSE TIME	RESTORATION TIME
Severity Level 1 (Major Failures)	A failure that causes the system and/or components an impairment of system’s core services (core services include dispatch, voice, paging, siren-alerting, data or network management)	On 24x7x365 basis: Within one (1) hour of initial notification to remotely respond to the problem. Arrive On-Site within two (2) hours, if necessary.	On 24x7x365 basis: Within four (4) hours of initial notification for Severity Level 1, with continued support efforts until resolution, even if 4-hour

SEVERITY LEVEL	DESCRIPTION	RESPONSE TIME	RESTORATION TIME
	<p>and no work-around or immediate solution is available.</p> <ul style="list-style-type: none"> <li>➤ Any complete RF site inoperable</li> <li>➤ 3 network nodes or greater of inoperable behavior</li> <li>➤ 50% or greater of site subsystem channels inoperable</li> <li>➤ 50% or greater of site dispatching center capability is inoperable</li> <li>➤ 2 or more loss of site interconnection link</li> </ul> <p>Unexpected and sudden wide-spread (i.e., a large area of a municipality) reduction in mobile-radio coverage as reported by multiple users.</p> <ul style="list-style-type: none"> <li>➤ Potentially Core Service Impacting Site Alarms: Loss of AC Power, High temperature and low temperature alarm (reference Addendum II)</li> <li>➤ A complete HVAC Failure of both units</li> <li>➤ Complete Generator Failure</li> </ul>		<p>restoration time is not met.</p>
<p>Severity Level 2 (Moderate Failures)</p>	<p>A failure that causes the system and/or components to operate with a continuous reduction in capacity or functionality of core services.</p> <p>25% to 49% of system or 25% to 49% dispatch consoles down.</p>	<p>Same as Level 1.</p>	<p>On 24x7x365 basis: Within eight (8) hours of initial notification for Severity Level 2, with continued support efforts until resolution, even if 8-hour restoration time is not met.</p>

SEVERITY LEVEL	DESCRIPTION	RESPONSE TIME	RESTORATION TIME
	<ul style="list-style-type: none"> <li>➤ Failure of a single Control Point, Siren Repeater or NSS (assuming activation of redundant component)</li> <li>➤ Unexpected and sudden local-spread (i.e., a neighborhood) reduction in portable-radio coverage as reported by multiple users.”</li> </ul>		
Severity Level 3 (Service Impacts)	<p>A failure that causes the system and/or components to operate with a reduction in the functionality, efficiency or usability of Core Services.</p> <p>Less than 10% dispatch consoles (including an individual dispatch console)</p> <p>Failure of less than 25% of site subsystem channels</p> <ul style="list-style-type: none"> <li>➤ Unexpected and sudden localized (i.e., a specific location in a neighborhood) reduction in coverage as reported by single user.”</li> <li>➤ Impacting Site Alarms: Single Repeater Failure</li> </ul>	Within two (2) hours of initial notification to remotely respond to the problem. Arrive On-Site within four (4) hours, if necessary.	Within twenty-four (24) hours of initial notification for Severity Level 3, with continued support efforts until resolution, even if 24-hour restoration time is not met.
Severity Level 4 (Non-Emergency)	<p>Issues of Severity other than Levels 1-3.</p> <ul style="list-style-type: none"> <li>➤ Minor alarms that do not impact use of Equipment</li> <li>➤ Operational, parts, and configuration questions</li> <li>➤ Intermittent problems being reviewed or</li> </ul>	Next business day, begin to remotely troubleshoot the problem and work on a plan and arrive on site, if necessary.	Upon mutual agreement by Dane County, Seller, and ASC (Considered planned scheduled work).

SEVERITY LEVEL	DESCRIPTION	RESPONSE TIME	RESTORATION TIME
	monitored that are not resulting in a Severity Level 1 or Level 2 issue ➤ Scheduled or routine maintenance		

## Spare Parts

Dane County will purchase spare equipment for critical system components throughout the term of Agreement. The spare equipment will ensure that repairs are performed as expeditiously as possible in accordance with the above Table A Recommended Response and Restoration and Addendum II, Support Matrix and agreement obligations. As Spare Parts are used to repair equipment, all changes in inventory status will be recorded by Seller or Seller’s subcontractor (ASC) such as, removal and reinstallation, units in for repair and subsequently returned to spares inventory, units lost, stolen, beyond repair and scrapped will be tracked by Seller or Seller’s subcontractor (ASC) .

### I. ON-SITE CORRECTIVE MAINTENANCE

1. Service Summary: Provide labor to troubleshoot, repair, and if necessary, remove and replace defective Fixed Equipment with spares kept locally at Seller or Seller’s subcontractor (ASC) location.
2. Seller’s Responsibilities:
  - i. Remote Diagnostics & Response:
    - As appropriate to help diagnose and resolve defective Fixed Equipment.
  - ii. On-Site Troubleshooting (if remote diagnostics and response were unable to resolve trouble):
    - Dispatch ASC personnel to investigate problem at Customer’s location which complies with Table A Resolution and Restoration Matrix.
    - Perform on-site diagnostics to confirm malfunction.
  - iii. Repair or replacement (per Table A Resolution and Restoration Matrix) of failed Equipment per ASC determination:
    - Repair, if repairable, and perform testing to verify proper operation.
    - Replace, if replaceable, with Customer purchased Spare Part and perform testing to verify proper operation.
  - iv. Shipment of failed Equipment to Seller’s or Third-Party Standard Repair Services (“Depot”) for repair: See Depot Repair service
  - v. Return of repaired Equipment:
    - Return repaired Equipment to original Customer location, or

- Return the repaired Equipment to the Spare Parts inventory, if a Spare Part was used.
3. Customer Responsibility:
- a. Cooperate in providing access to site
  - b. Notify users of failure
  - c. Cooperate in testing of repaired/replaced equipment
  - d. Cooperatively review inventory of spare equipment on an annual basis

## II. DEPOT REPAIR SERVICES

1. Service Summary. Provide factory repair services for the Equipment.
  2. Service Request.
    - a. Whether initiated by Dane County or On-site Corrective Maintenance, ASC's Point of Contact shall initiate a Return Material Authorization ("RMA") request for repair services by emailing Net Control at [netcontrol@racom.net](mailto:netcontrol@racom.net) or by calling (888) 752-1070.
    - b. A Return Material Authorization ("RMA") will be provided to ASC within two (2) business days from the date of receipt of ASC's RMA request.
    - c. ASC shall follow the instructions listed on the RMA. ASC shall ship, at Customer expense, the Equipment to the address specified in the RMA. ASC shall include a copy of the RMA form inside the box, and clearly display the RMA number on the outside of the box containing the Equipment.
    - d. ASC shall pack Equipment adequately to prevent damages during transit and bear the risk of damage during transit. If ASC wants multiple items listed on a single RMA to be returned together, ASC must specifically request a complete shipment from Seller.
  3. Schedule Turn-Around Time for Standard Repairs.
    - a. Standard repairs will be completed in ten (10) business days for L3Harris Equipment and thirty (30) business days for Third-Party Equipment from the start of Seller repair center receipt of returned equipment.
    - b. Seller will utilize commercially reasonable efforts to assure parts and equipment availability to support its Depot Repair Services obligations under this Agreement. If there is a delay in the repair times, Seller will communicate such delay to the County.
    - c. If Customer wants the Equipment repaired sooner than the estimated dates within this Section, the ASC or Customer must contact Seller for additional options which may result in additional expedite charges.
  4. Seller Responsibilities:
    - a. Notify ASC if any Equipment, received from ASC, appears damaged during shipment or is missing.
    - b. Verify the Equipment received against ASC submitted RMA.
    - c. Perform a visual inspection and operational check on Equipment to determine nature of the problem and repairs required.
    - d. Make the required repairs and test the functionality of the repaired Equipment to ensure it meets or exceeds prescribed specification or manage the repair through the Third-Party manufacturer to ensure it meets or exceeds prescribed specifications, if applicable.
-

- e. Package, ship, and return the repaired Equipment to ASC or Customer, at Seller's expense, as the Equipment is repaired.
- f. Provide a weekly Summary Report similar to the example below, or another format as determined by Seller:

RMA	Date	Problem/Site Location	Item Description/Serial Number	Resolution	Resolution Date
123456	7/10/2020	No card communication.	Net Sentry	Faulty mother module	7/20/2020

- g. Ship multiple Equipment listed on a single RMA together only if ASC specifically requests complete shipment.
  - h. Pack outbound shipments properly and bear the responsibility for damage that occurs prior to delivery to ASC.
  - i. Return item to service per On-Site Corrective Maintenance
5. ASC Verification. ASC partner shall reinstall and validate operation of repaired Equipment or return item into spares stock.
6. Non-Standard Repair.
- a. Seller may determine that the repair of Equipment is not within the scope of Services of this Agreement due to the unavailability of parts, equipment or equipment obsolescence or part obsolescence in accordance with Section 2.5.c of this Agreement, handling above normal wear and tear, or force majeure.
  - b. If Seller determines, for the reasons set forth above, that Equipment is not within the scope of this Agreement, Seller shall notify ASC and/or Customer and provide to Customer an estimate of additional time required and either i) all additional charges required to perform repairs or ii) the cost to replace the Equipment.
  - c. If Customer approves the additional charges, the repaired or replacement Equipment shall be shipped to Customer. If Customer disapproves the additional charges, Seller will ship back unrepaired Equipment.

### III. TECHNICAL ASSISTANCE SUPPORT (TAC)

- 1. Service Summary. Provide 7x24x365 technical assistance to answer questions and help resolve issues.
  - 2. Customer or ASC shall initiate a call for technical assistance by calling Net Control at (888) 752-1070 or emailing to [netcontrol@racom.net](mailto:netcontrol@racom.net).
  - 3. Seller's Responsibilities:
    - a. Provide Customer and ASC with 24x7x365 remote Technical Support for resolving issues with the Equipment and will be logged and tracked with a specific incident case number and reopenable by email response if needed.
    - b. Respond and diagnose non-emergency calls within two (2) hours from the time of Service Request.
-

- c. Respond and diagnose emergency calls within one (1) hour from the time of Service Request.

Coordination with On-site Corrective Maintenance ASC support services, as necessary.

- f. If the customer's system major Update release exceeds N-2 (two releases back from the latest release) the Technical Assistance Center will still answer and respond to customer calls, however the level of support may be limited based on age of products or platform . See Section 2.5

#### **IV. ANNUAL PREVENTIVE MAINTENANCE**

1. Service Summary. Includes scheduled tests, checks, corrections, and routine alignments of the Equipment identified in Addendum II, Support Matrix, and Addendum V, Equipment and Spares List on an annual basis or other period if specifically identified.
2. Seller's Responsibilities:
  - a. Inspect/Check Equipment per the Preventative Maintenance Table included below.
  - b. If the inspection/check shows a component is out of specification or does not function as expected and that specification/functionality can be re-established either by alignment, correction, replace, or repair, Seller shall align and/or repair the out-of-specification Equipment.
  - c. If the inspection/check is a visual/physical review of the equipment (including its conditions, connections, exterior, routing, etc.) and that inspection shows that the equipment requires attention, Seller shall notify Customer of the condition of concern and shall develop a plan with Customer for its resolution.
  - d. If the inspection/check is an action that does not evaluate or confirm a specification but is intended to physically maintain the equipment (e.g., clean it of dust), Seller shall perform the action and shall notify Customer of any inability to complete or any concerns observed during the maintenance.
  - e. Provide Customer with a Preventive Maintenance Normal Working Hours schedule and approximate Equipment outage times (if any). Perform Preventative Maintenance within Normal Working Hours unless otherwise agreed to by Seller and Customer.
  - f. Seller shall collect and record the component's specifications and/or conditions before and after calibration/inspection and shall present those values, along with the values that represent manufacturer's specifications, to Customer.
  - g. Provide Customer with a Summary Report in the format shown in the Seller Table below, or another format as determined by Seller.

FIXED EQUIPMENT PREVENTIVE MAINTENANCE TABLE

Technician \_\_\_\_\_

Date \_\_\_\_\_

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
GENERAL	Check RF, data and audio cable condition (Visual only)	Annual		
	Check general alarm status, troubleshoot and investigate any found alarm conditions (Check RNM Status at time of PM)	Annual		
	Check condition of punch blocks (Visual only)	Annual		
	Perform a general talkgroup test	Annual		
	Perform an individual call test	Annual		
MASTR V BASE STATION (Manual MM-017079-001)	Check simulcast timing, validate per specification, align if needed	Annual		
	Check transmitter RF power output matches system design, align if needed	Annual		
	Check transmitter frequency stability is within correct ppm of specification, align if needed	Annual		
	Check modulation deviation is within correct kHz of specification, align if needed	Annual		
	Check Receiver BER/Sensitivity, align if needed	Annual		
	Verify Cable Fault alarm functionality, repair if non-functional	Annual		
	Check call processing, each channel, confirm audio quality, align or repair if poor audio quality	Annual		
	Clean physical fans	Annual		
	Visually inspect RF lines to the tower (See below), report any conditions requiring attention	Annual		
	Inspect audio and data cables for snug connection, report any conditions requiring attention	Annual		
	Verify control channel operation and rolling, repair if non-functional	Annual		
	Perform power supply voltage checks A and B feeds, report any conditions requiring attention	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
MASTR III BASE STATION (Manual MM102554V1)	Check simulcast timing at SecurSync, validate per specification, align if needed	Annual		
	Check transmitter RF power output matches system design, align if needed	Annual		
	Check transmitter frequency stability is within correct ppm of specification, align if needed	Annual		
	Check modulation deviation is within correct kHz of specification, align if needed	Annual		
	Check receiver sensitivity, align if needed	Annual		
	Verify Cable Fault alarm functionality, repair if non-functional	Annual		
	Check basic call processing, each channel, align or repair if poor audio quality	Annual		
	Clean physical fans	Annual		
	Visually inspect RF lines (See below), report any conditions requiring attention	Annual		
	Inspect audio and data cables connection for snug connection , report any conditions requiring attention	Annual		
Paging Backup Control Station	Check transmit and RCV frequency, align if needed	Annual		
	Check transmit power, align if needed	Annual		
	Check deviation, align if needed	Annual		
ANTENNA SUBSYSTEMS (MASTR V, MASTR III, GPS, MICROWAVE, AND CONTROL STATION	Perform visual inspections of antenna lines to confirm no physical damage, proper/snug connections, and proper/secure routing; report any conditions requiring attention	Annual		All line inspections to be performed from ground elevation; no climbing of tower to be performed unless otherwise approved contracted and purchased by Customer
	Perform visual inspections of lightning suppression to confirm no physical damage, proper/snug connections, proper/secure mounting, and in-tact ground connection; report any conditions requiring attention	Annual		
	Perform visual inspections of combiners, multicouplers, & filters to confirm no physical damage, proper/snug connections, and proper/secure routing. If powered, confirm power cabling for snug connection. Report any	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
	conditions requiring attention			
GPS RECEIVERS	Verify GPS sync, repair if non-functional	Annual		
	Verify Cable Fault alarm functionality, repair if non-functional	Annual		
	Remote check log file data for errors and performance per spec; report any conditions requiring attention	Annual		
	Visually check power and ethernet cables; report any conditions requiring attention	Annual		
	Clean equipment of dust	Annual		
	Antenna Visual Inspection (See Antenna Sub-System above). Report any conditions requiring attention	Annual		
NETWORK	Spot Check and verify current RNM alarms Report any conditions requiring attention and/or correct any alarms.	Annual		
	Inspect Ethernet cables for snug connections (Visual only); report any conditions requiring attention	Annual		
	Clean servers for dust	Annual		
	If powered by dual power supplies, disconnect one at a time and confirm continued operation, repair power supply if non-functional	Annual		
CONSOLES				
	Clean Symphony and Duet boxes of dust	Annual		
NSS (Primary and Secondary)	Verify high availability (HA) functionality with manual soft switch, repair if non-functional	Annual		
	Check for HA switching alarms. Report any conditions requiring attention and/or correct any alarms.	Annual		
	Clean servers and keyboard for dust	Annual		
	Check servers are operating on most current software revision (Software Audit Annual). Report any conditions requiring attention	Annual		
	Check BeOn functionality (license provided by Dane County to check), repair if non-functional	Annual		
	Visually inspect all cabling, including network	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
	and power cables, for snug connections; report any conditions requiring attention			
	If powered by dual power supplies (CCB location), disconnect one at a time and confirm continued operation, repair power supply if non-functional	Annual		
VIP CONSOLES	Check for system connectivity, repair if not connected	Annual		
(Fitchburg and Sun Prairie)	Verify console basic call functionality, repair if non-functional	Annual		
	Check select and unselect speaker audio output for clarity, align or repair if poor audio quality	Annual		
CONTROL POINTS (Primary and Backup)	Check audio input and output levels, adjust if out of spec	Annual		
	Check voting operation, repair if non-functional	Annual		
	Check power supply voltage A and B feeds, repair power supply if non-functional	Annual		
	Visually inspect all cabling including network and power cables for snug connections; report any conditions requiring attention	Annual		
	Spot Check and verify current RNM alarms Report any conditions requiring attention and/or correct any alarms.	Annual		
HVAC UNITS	Check voltage of the unit, repair if out of spec	Annual		
	Check evaporator motor amps, repair if out of spec	Annual		
	Check compressor motor amps, repair if out of spec	Annual		
	Check condenser motor amps, repair if out of spec	Annual		
	Check SUC pressure, repair if out of spec	Annual		
	Check DIS pressure, repair if out of spec	Annual		
	Check SUC temperature, repair if out of spec	Annual		
	Check AMB temperature, repair if out of spec	Annual		
	Check temperature entering air, report any conditions requiring attention	Annual		
	Check temperature leaving air, report any conditions requiring attention	Annual		
	Check visual economizer, report any	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
	conditions requiring attention			
	Check electrical visual, report any conditions requiring attention	Annual		
	Test lead LAG controller, repair if non-functional	Annual		
	Change filter	Annual		
	Clean coils	Annual		
	Clean mouse waste if applicable	Annual		
GENERATOR & TRANSFER SWITCH	Check fuel type, report any conditions requiring attention	Annual		
	Check fuel tank level, report any conditions requiring attention	Annual		
	Change oil	Annual		
	Check battery condition visual, report any conditions requiring attention	Annual		
	Check oil pressure level	Annual		
	Check antifreeze level	Annual		
	Check hoses and pipe visual, report any conditions requiring attention	Annual		
	Check utility line voltage, report any conditions requiring attention	Annual		
	Check generator line voltage, repair if out of spec	Annual		
	Verify generator exercise time	Annual		
	Load test	Quarterly		
MICROWAVE	Check MPLS router voltage, repair if out of spec	Annual		
	Visually inspect MPLS router cables for snug connection, report any conditions requiring attention	Annual		
	Spot check MPLS Network router alarms. Report any conditions requiring attention and/or correct any alarms.	Annual		
	Verify ring switching functionality, repair if non-functional	Annual		
	Visually check condition of fiber cables for snug connection, report any conditions requiring attention	Annual		
	Visually inspect Microwave Dish from the ground, report any conditions requiring attention	Annual		
	Visually inspect Microwave Transmission	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
	Line, report any conditions requiring attention			
	Visually inspect Microwave Lightning Protection, report any conditions requiring attention	Annual		
	Check power source of Microwave rectifiers, report any conditions requiring attention	Annual		
MICROWAVE RADIO	Check Microwave Radios Frequency (TX and RX), align if needed	Annual		
	Check Microwave Radio Power, align if needed	Annual		
	Check Microwave Receiver Signal Level, align if needed	Annual		
	Check Microwave TX power of Radio, align if needed	Annual		
	Check Microwave Radio Path Distortion, align if needed	Annual		
Microwave Dehydrators	Visual inspection, report any conditions requiring attention	Annual		
	Verify running with gages, report any conditions requiring attention	Annual		
	Verify making air pressure, report any conditions requiring attention	Annual		
RADIO & GPS LIGHTNING PROTECTION	Visual Inspection only, report any conditions requiring attention	Annual		
AC-DC Inverters	Check voltage in and voltage out, report any conditions requiring attention	Annual		
	Visual inspection of all cabling and cable routing, report any conditions requiring attention	Annual		
Uninterruptable Power Supplies	Run self-test function, repair if non-functional	Annual		
	Visual Check, report any conditions requiring attention	Annual		
Site Monitoring Equipment (NetSentry Workstations, the equipment that monitors site conditions/alarms)	Visual check of the cables, and punch block, report any conditions requiring attention	Annual		
	Trigger an alarm to validate operation, repair if non-functional	Annual		

	PREVENTIVE MAINTENANCE (IF APPLICABLE & AS NECESSARY)	PERIOD	PASS FAIL	NOTES/ RECOMMEND ED ACTIONS
	Check and clean dust	Annual		
Harris-Provided Shelters (Visual Only) inspection	Visual inspection of shelter to include master ground connection, shelter door, walls, floor, racks, cable troughs/ladders, lighting, transmission line ports, signage (RF, contacts, licensing), gate/fence, safety (fire suppression, first-aid, eye wash); report any conditions requiring attention	Annual		
	Visual inspection of tower (from ground elevation only) to include tower structure, ice bridge, cable routing, grounding, guy wires, signage (RF, FCC); report any conditions requiring attention			
M7300 Mobile Radios	Test functionality of M7300, repair if non-functional	Annual		
	Visual inspection of cables; report any conditions requiring attention	Annual		

**V. FX SOFTWARE UPDATE INSTALLATION**

1. Service Summary. Provide labor for the installation and testing of FX Software minor Updates when released by L3Harris.(per Software FX Agreement Software Update definition)
2. Seller’s Responsibilities:
  - a. Seller will perform Software Updates during evenings or weekends at no additional expense and will coordinate with Dane County in advance of updates to be uploaded onto the system.
  - b. Install the L3Harris FX Software Minor Updates released during the Term of this Agreement.
  - c. Install hardware if required with technician level labor
  - d. Inspect and repair out of specification Equipment before the Software Update installation.
  - e. Provide Customer with an installation schedule and approximate Equipment out of service periods (if any).
  - f. Provide Customer with a Summary Report as part of a quarterly reporting cycle as exemplified below, or another format as determined by Seller:

WO No.	Date Released	What was updated	Resolution	Date FX Installed
123456	10/4/2020	Symphony	To address X and Y. Loaded	11/4/2020

		consoles	from old R11A to new software R12B per release notes.	
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3. Customer Responsibilities:  
Customer shall waive all Seller liability for the decision for not installing FX Software Updates. Customer shall then provide Seller or ASC communication waiving this installation FX Software Update.
4. Exclusions:
  - i. Any configuration changes, are not included in this FX Software Update Installation service.
  - ii. The FX Software Update installation service does not include system upgrade or update efforts requiring network engineering, design engineering, configuration engineering, system engineering, system staging, and program management, Seller and the Customer will work together to provide a mutually agreed upon quote that contains sufficient level of saleable detail for the Customer to purchase.

**VI. SUMS SECURITY UPDATE INSTALLATION**

1. Service Summary. Provide the installation of SUMS Updates on commercially available releases.
2. Seller’s Responsibilities:
  - a. Installation shall be Normal Working Hours if the update does not impact the performance of the system. If installation does impact the performance of the system, Seller will perform Security Updates during evenings or weekends at no additional expense and will coordinate with Dane County in advance of updates to be uploaded onto the system.
  - b. Will communicate risk and benefits to Customer
  - c. Will install SUMS within 30 days prior to next release (or upon mutual agreed schedule)
  - d. Install and test the SUMS Patches.
  - e. Coordinate with the Customer for an installation schedule and approximate Equipment out of service periods (if any). Provide Customer will make available per request a Summary Report in the format shown below, or another format as determined by Seller:

WO No.	Date of Release	Problem	Resolution/Purpose	Date of Installation	
123456	7/4/2020	Operating System Patch received.	Loaded new Operating System Patch per release notes. From X to Y	7/6/2020	

3. Customer Responsibilities:  
Customer shall waive all Seller liability for the decision for not installing SUMS Updates. Customer shall then provide Seller or ASC communication waiving this installation of SUMS Updates.
4. Exclusions:  
Any configuration changes beyond those required to complete SUMS Installation service are not included in SUMS Installation Service.

## **VII. SYSTEM/NOC MONITORING**

Seller will monitor the County's radio communications system through NOC. Seller's NOC facility provides support services and will provide the following below NOC services:

Seller's Responsibilities:

- a.) NOC Services will be supported utilizing a spreadsheet to be mutually developed and mutually agreed to by Dane County and Seller. The spreadsheet (currently NOC Ver 17 spreadsheet; to be mutually revised and approved when/ and as necessary) defines the equipment conditions to be monitored and the severity and the reporting process of alarms from that equipment.
- b.) Seller's NOC technicians will perform 24x7 monitoring of system elements contained in the Regional Network Manager (RNM) per the NOC alarm matrix Ver 17 spreadsheet or replacement/update.
- c.) Observe, document, and report alarms as specified in the alarm matrix Ver 17 spreadsheet or replacement/update.
- d.) Open work orders with details of customer/local technician (ASC) activity as reported.
- e.) Notify designated ASC/customer contacts as specified in the Customer alarm matrix spreadsheet captured in a.) above.
- f.) Document Preventative Maintenance.
- g.) Track alarm remediation actions until the alarm condition is corrected and cleared
- h.) Provide monthly reports summarizing alarms reported, corrective action taken, technician dispatch history and time to repair
- i.) Provide a monthly check of VPN backup connectivity

Customer Responsibilities:

- a.) Allow Seller remote VPN access to the network as well as backup connectivity if primary tunnel is down.
- b.) Provide public internet access, with a static IP address, to the outside interface of the radio network IFW, including any routing or firewall rules required.
- c.) Provide all customer applicable system passwords required to access Customer's System.
- d.) Notify the NOC when a customer performs any activity that impacts the system.
- e.) Notify the NOC of System changes made by Customer (i.e., RNM mapping, password information, etc).

## **VIII. ADDITIONAL MAINTENANCE SERVICES**

### **Maintenance Meetings**

Customer, Seller, and ASC will meet every other week to go over the open trouble tickets, EOL announcement, Preventative Maintenance plan and schedule, NOC services, SUMS releases and FX releases and scheduling.

### **Quarterly Meetings**

Customer and Seller will meet quarterly to discuss customer satisfaction. Topics may include:

- Status of projects in process
- Current spares inventory
- EOL product announcements
- 3<sup>rd</sup> Party Software Support Agreement(s)
- Open and closed trouble tickets quantities (any patterns i.e. excessive Symphony audio issues)
- Quarterly operation report (failure reports)

- Other Customer or Seller concerns

### **Trouble Ticket Reports**

Seller shall issue Service Trouble Ticket Reports for equipment list in Addendum II matrix on a monthly basis.

### **System Alarm Checks**

Seller or Seller's subcontractor shall check radio system's alarms on a daily basis and report any alarm conditions to Customer.

Investigation and troubleshooting of alarms shall begin in order of severity level and impact to the overall system's ability to maintain effective communications.

**ADDENDUM V**

**EQUIPMENT AND SPARES LIST**

The following equipment list represents the Customer’s system as it existed prior to a 2022 upgrade to SR10.A7. All services provided under this Agreement are only applicable to the land mobile radio products and systems included in this list with the exception that equipment which been removed or which has been added to the system as part of the recent / 2022 upgrade to SR10.A7 will be excluded or included, respectively

Customer may add or delete equipment items to the Equipment List by notifying the Seller in writing. As additional items are purchased from Seller they will be added to this Agreement. Any changes to this Agreement will be through an Amendment document completed by Seller and provided to Customer for review, approval and signature. The Amendment document will provide revised Equipment Lists, revised pricing structure changes if applicable and any necessary changes to fully incorporate the additional items into the Agreement.

**CCB DISPATCH**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
	Economizer	
	HVAC, Carrier	
	HVAC, Carrier	
MGen-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
VSCR07	Router,2911,AC,Security,w/Ether Switch	FTX1542AJKY
VSCR07	Router,2911,AC,Security,w/Ether Switch	FTX1542AJKG
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513340
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513466
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763341
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513470
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513398
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513276
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763637
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763425
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763243
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763605
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513506
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763249
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0922763433
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513472
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513269
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513460
R9063 Rev C	Symphony,Dispatch w/Speakers, HS Jacks, FS	0956513412
R9063 Rev C	Symphony Gateway System with Encryption	0956513382
R9063 Rev C	Symphony Gateway System with Encryption	0956513392
R9063 Rev C	Symphony Gateway System with Encryption	0956513517
R9063 Rev C	Symphony Gateway System with Encryption	0922763711
ELO ET2400LM-8CNA-1-GY-G	Monitor, 24" Touchscreen	



HC115Q1-12F	Control Station Combiner 17-20	A36434003-002
HC115Q1-12F	Control Station Combiner 13-16	A36434003-001
HC115Q1-12F	Control Station Combiner Antenna Ports	A36434003-004
HC115Q1-12F	Control Station Combiner 9-12	A36434003-003
HC115Q1-12F	Control Station Combiner 5-8	A36434003-002
HC115Q1-12F	Control Station Combiner 1-4	A36434003-001
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15984
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351024
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351127
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351087
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351166
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351165
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15980
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15975
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351127
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351124
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351128
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351167
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15979
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15997
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351084
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351025
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351088
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351086
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15988
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15983
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351168
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351125
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351097
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351126
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16039
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16040
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351085
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351094
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351027
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351164
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16034
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15969

**CCB PRIMARY NSC & IPCP**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MANS-CA3C	Cabinet,NSS,w/Pwr Strips,F&B Drs	N/A
MANS-CP9B	Netclock,GPS Master Clock	
	7705 MPLS Router	NS120662757
VSCR02	Router,Cisco 3925,IP Adv Security	FOC153557P3
VSCR04	Cisco ASA5510	JMX1540X19T

VSCR07	Router,2911,AC,Security,w/Ether Switch	FTX1542AJKG
VSCR16	Router,Cisco 3560X,AC Pwr	FD0153K12R
VSSD02	Server,Dell R610,Active Directory Server	DQ9VR1
MANM-TSCDR	Server,Transcoder	6B42TR1
MANS-NCU3D	Kit,1RU Monitor,Key Board,Mouse,KVM	2114AATCB830900109
MANS-STD1	Server,Network Switch(NSS),Primary	BDL114500C
MANM-RVMGR	Server,Regional VIDA Manager (RVM)	BDL114500E
MANM-ISGTW	Server,ISSI Gateway	BDL114103C
MANM-RSM	Server,Regional Site Manager	2HG2XQ1
MANG-4DVUS	Chassis,4-Slot Interoperability Gateway	755
MANG-4DVUS	Chassis,4-Slot Interoperability Gateway	707
CP-MR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A	Network Sentry,IP Simulcast	1000070137
SCPS9H	Power Supply,120/230VAC,50/60Hz,24VDC	
CP-MD7B	Assy,Controller,SitePro,MME w/ Cables	C1119B03FD8
OC-016344-001	Net Clock , Simulcast	
OC-016344-001	Net Clock , Simulcast	5950
VSCR12	Router,2921,AC,Security,w/Ether Switch	FTX1521ALL0
CP-RB1V	Shelf,14-Slot,Multichannel,w/Switch	N/A
CP-PS2P	Power Supply,110-240V,AC,MASTR V	

**UW SECONDARY NSC & IPCP**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MANS-CA3C	Cabinet,NSS,w/Pwr Strips,F&B Drs	N/A
MANS-CP9B	Netclock,GPS Master Clock	
VSCR02	Router,Cisco 3925,IP Adv Security	FOC153558FG
VSCR16	Router,Cisco 3560X,AC Pwr	FDO15358R0
VSCR04	Cisco ASA5510	JMX1540X19V
VSCR07	Router,2911,AC,Security,w/Ether Switch	FTX1542AJKY
VSSD02	Server,Dell R610,Active Directory Server	DQ9DVR1PN
MANS-NCU3D	Kit,1RU Monitor,Key Board,Mouse,KVM	2114AATCB830900244
	DELL N3024P	
	FIBER DIST PANEL	
MANS-STD2	Server,Network Switch (NSS),Secondary	BDL1137063
7705 MPLS Router	7705 MPLS Router	NS120662757
MANM-RVMGR	Server,Regional VIDA Manager (RVM)	BDL1133033
CP-MR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	100070137
SCPS9H	Power Supply	
CP-MD7B-DC	Assy,Controller,SitePro,MME w/ Cables DC	C1119B03FD8
OC-016344-001	Net Clock , Simulcast	05950
OC-016344-001	Net Clock , Simulcast	
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1521All0
CP-RB1V	Shelf,14-Slot,Multichannel,w/Switch	N/A

CP-PS2P-DC	Power Supply,-48V,DC,MASTR V	
CP-PS2P-DC	Power Supply,-48V,DC,MASTR V	

**EDC IRIM**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
CP-MR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
HC115Q1-12F	Control Station Combiner 9-12	H36434001-1
HC115Q1-12F	Control Station Combiner 5-8	H36434001-1
HC115Q1-12F	Control Station Combiner 1-4	H36434001-1
MANG-4DVUS	Chassis,4-Slot Interoperability Gateway, 12 port	00707
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5377H1110C92260
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5377H1910C96231
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10718
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10743
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16029
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16027
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10752
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10797
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10818
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10822
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15986
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB16026
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10902
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H1111C10905
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H2811C11769
MISC-MTRL-PO-REF	EFJ 5300 SmartNet Radios	5378H2811C11780
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XF87960
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	XB15995

**EDC 911**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351202
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351286
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351285
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351288
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351203
MAMW-SHMXX	Mobile,M7300,136-174MHz,50W	A40123351287
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	
PS24043-0001	Power Supply,120VAC,2X13.6VDC,6A/30A	
XL200P	XL200P Portable Radio and Charger	
XL200P	XL200P Portable Radio and Charger	
XL200P	XL200P Portable Radio and Charger	
XL200P	XL200P Portable Radio and Charger	
XL200P	XL200P Portable Radio and Charger	
XL200P	XL200P Portable Radio and Charger	



MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541311
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541312
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541313
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541314
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-58-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC526774-1-2
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-14
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-43
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicupler	H36474001-2
	Receiver Preselector, 2 Cavity	Custom
SV-CL2D-DC	3560v2 Switch, DC Power	FDO1544Y25H
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541315
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541316
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-19
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-37
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
SXMR1D	Rack,Open,86 in	N/A
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792985
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792984
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792983
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	98776385

SXMR1D	Rack,Open,86 in			N/A
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792982
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792981
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792969
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792968
SXMR1D	Rack,Open,86 in			N/A
	CONVEX AUDIO 2241A			
	CONVEX AUDIO 2240A			
	VOICE OPTIMIZER NBL4			1019
	CONVEX AUDIO 2240A			
	BOGEN DFT120			
	HARRIS CS7000 DESKTOP STATION			
	Duplexer, UHF			142819
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS			120123084
	Convex Delay Timer			5840
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792967
	Dual Stage Isolator			
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792986
SXHMCX	Station,Conv 174MHz,110W	MASTR	III,150.8-	987792966
	P25 Transmit Combiner			
	TX Combiner # 1			CC62435-1-6C
	TX Combiner # 1			CC62435-1-6D
	TX Combiner # 2			CC62435-1-6E
	TX Combiner # 2			CC62435-1-6F
	Mutual Aid Receive Combining Solution			
	RX Multicoupler			CC648321-1A
	RX Multicoupler			CC648321-1B
	RX Filter Cavities			CC648321-1C
	RX Filter Cavities			CC648321-1D
	RX Filter Cavities			CC648321-1E
	RX Filter Cavities			CC648321-1F
	Mutual Aid Transmit Combiner			
	TX Filter Cavities			CC64832-1-1K
	TX Filter Cavities			CC64832-1-1L
	TX Filter Cavities			CC64832-1-1M
	Mutual Aid Transmit Combiner			
	TX Dual Stage Isolator			CC64832-1-1G
	TX Filter Cavities			CC64832-1-1H

	TX Filter Cavities	CC64832-1-1I
	TX Filter Cavities	CC64832-1-1J
	Rack, 26", DC Supply & Distribution	
	Power Controller LVBD	120743100020
	DC Rectifier Chassie	12074310022
	Slave 48VDC Distribution Buss	120743100031
	Main 48VDC Distribution Buss	120743100037
	Converter, 48VDC to 24VDC	120543100380
	Converter, 48VDC to 12VDC	021237105
	Converter, 48VDC to 12VDC	021237103
	Converter, 48VDC to 12VDC	021237100
	Flat Pack DC Rectifier 48V	114571165648
	Flat Pack DC Rectifier 48V	114571166139
	Flat Pack DC Rectifier 48V	114571164762
	Flat Pack DC Rectifier 48V	114571164847
	Flat Pack DC Rectifier 48V	114571164850
	Flat Pack DC Rectifier 48V	114571165673
	Flat Pack DC Rectifier 48V	114571164869
	Flat Pack DC Rectifier 48V	114571165952
	Flat Pack DC Rectifier 48V	114571165980
	Flat Pack DC Rectifier 48V	114571166213
	Flat Pack DC Rectifier 48V	114571165178
	Flat Pack DC Rectifier 48V	114571165124
	Flat Pack DC Rectifier 48V	114571164854
	Flat Pack DC Rectifier 48V	114571166254
	Flat Pack DC Rectifier 48V	114571165128
	Flat Pack DC Rectifier 24V	114271001325
	Flat Pack DC Rectifier 24V	114671002419
	Flat Pack DC Rectifier 24V	114671002261
	Flat Pack DC Rectifier 24V	114671002107
	Flat Pack DC Rectifier 24V	114671002109
	Flat Pack DC Rectifier 24V	114671002097
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2684-205r1
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2684-205r2
	Microwave Battery Rectifier	2029011205739
	Microwave Battery Rectifier	2031081106606
SMIX48	Microwave DC Plant	FPS126143
	Microwave, Dehydrator	A-061203932
	16 Port Network I/O Controller	1340080-020 00003
	16 Port Network I/O Controller	1340080-020 00003
	Automatic Transfer Switch	1636416-1
	ATS Controller/Exerciser	K3059502
	Generator, 50Kw, Diesel	SGM3229H7
CP-MR1H	Rack,Open,86 in(Xtra Dp) with support	N/A

KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	150114005 IT486997
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	160301274 IT503441
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	160301277 IT503444
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	160301297 IT503446
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	150114001 IT486996
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120130132 IT441872
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123048 IT444603
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123047 IT444602
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123044 IT444599
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123044 IT444600
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123046 IT444601
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123049 IT444604
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123043 IT444698
KRD103106/264	Multiplexer,CP,12Ch,w/o IEA,+24DPS	120123084 IT441865
SXMR1D	Rack,Open,86 in	N/A
VJCJPSX	Voter,Conventional Analog	C11315
VJCJPSX	Voter,Conventional Analog	C11320
VJCJPSX	Voter,Conventional Analog	C11316
VJCJPSX	Voter,Conventional Analog	C11313
VJCJPSX	Voter,Conventional Analog	C11315
VJCJPSX	Voter,Conventional Analog	C11306
VJCJPSX	Voter,Conventional Analog	C11304
VJCJPSX	Voter,Conventional Analog	C113915

**ROXBURY SITE 9**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070139
OC-016344-001	Net Clock, Simulcast, MastrV	01304
OC-016344-001	Net Clock, Simulcast, MastrV	01295
7705 SAR-8	7705 MPLS Router	NS120662907
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1547AJY4
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541319
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541320
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541321
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541322
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-20
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-17
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-15
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-11
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541323
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541324
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541325
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541326
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-5
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-13

MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-12
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-9
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicupler	H36474001-3
SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1543X2KK
	Receiver Preselector	CC62435-1-5B
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541317
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541318
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-4
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-1
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120123087
	Convex Delay Timer	
	Humidity Controller	Qty. 1
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987793004
SXMR1D	Rack,Open,86 in	N/A
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987793003
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987793002
	P25 Transmit Combiner	
	TX Combiner # 1	CC62435-1-5C
	TX Combiner # 1	CC62435-1-5D
	TX Combiner # 2	CC62435-1-5E

	TX Combiner # 2	CC62435-1-5F
	Mutual Aid Transmit Combiner	
	TX Dual Stage Isolator	CC64832-2-1F
	TX Combiner Cavities	CC64832-2-1G
	TX Combiner Cavities	CC64832-2-1H
	TX Combiner Cavities	CC64832-2-1I
	TX Combiner Cavities	CC64832-2-1J
	Mutual Aid Receive Combining Solution	
	RX Multicouper	CC64832-2-1A
	RX Multicouper	CC64832-2-1B
	RX Multicouper, Filter Cavities	CC64832-2-1C
	RX Multicouper, Filter Cavities	CC64832-2-1D
	RX Multicouper, Filter Cavities	CC64832-2-1E
	Rack, 26", DC Supply & Distribution	
	Power Controller LVBD	120743100017
	DC Rectifier Chassie	120743100024
	Flat Pack DC Rectifier 24V	114271001318
	Flat Pack DC Rectifier 24V	114271001274
	Flat Pack DC Rectifier 24V	114271001317
	Flat Pack DC Rectifier 24V	114271000695
	Flat Pack DC Rectifier 48V	114571166040
	Flat Pack DC Rectifier 48V	114571165826
	Flat Pack DC Rectifier 48V	114571166090
	Flat Pack DC Rectifier 48V	114571166109
	Flat Pack DC Rectifier 48V	114571166272
	Flat Pack DC Rectifier 48V	114571165698
	Flat Pack DC Rectifier 48V	114571165832
	Flat Pack DC Rectifier 48V	114571166207
	Flat Pack DC Rectifier 48V	114571165700
	Flat Pack DC Rectifier 48V	114571166208
	Flat Pack DC Rectifier 48V	114571165639
	Flat Pack DC Rectifier 48V	114571166027
	Slave 48VDC Distribution Buss	120743100034
	Main 48VDC Distribution Buss	120743100035
	Converter, 48VDC to 24VDC	120543100377
	Converter, 48VDC to 12VDC	021237097
	Converter, 48VDC to 12VDC	021237099
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2678-202R1
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2678-202R2
	Microwave Battery Charger	
	MW Rectifier	
	MW Rectifier	
	MW Rectifier	
	Microwave, Dehydrator	A-061203937

	ATS Controller	K3058095
	ATS Switch	1635390-1
	Generator, Propane, 45Kw	SGM3229FM

**EISNER SITE 10**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070144
OC-016344-001	Net Clock, Simulcast, MastrV	01201
OC-016344-001	Net Clock, Simulcast, MastrV	01208
7705 SAR-8	7705 MPLS Router	NS120662884
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1547AJXZ
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541289
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541290
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541291
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541292
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-9
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-5
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52504-1-4
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541294
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541293
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541295
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541296
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-2
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52504-1-7
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-8
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-3
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
	Humidity Controller	Qty. 1
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicoupler	36474001-5

SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1544Y25F
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541297
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541298
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-18
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52913-1-19
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120123082 IT441863
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792987
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792990
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792989
SXMR1D	Rack,Open,86 in	N/A
	Dual Stage Isolator	
	Convex Delay Timer	
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792973
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792971
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792970
SXMR1D	Rack,Open,86 in	N/A
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792972
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792973
	Rack, Open, 86 in, P25 TX Combiner	
	TX Combiner # 1	CC62435-1-4C
	TX Combiner # 1	CC62435-1-4D
	TX Combiner # 2	CC62435-1-4E
	TX Combiner # 2	CC62435-1-4F
	Mutual AidTX Combining Solution	
	TX Dual Stage Isolator	CC64832-2-3F
	TX Combiner Cavities	CC64832-2-3G
	TX Combiner Cavities	CC64832-2-3H
	TX Combiner Cavities	CC64832-2-3I
	TX Combiner Cavities	CC64832-2-3J
	Mutual Aid Rx Combining Solution	
	RX Multicoupler	CC64832-2-2A
	RX Multicoupler	CC64832-2-2B

	RX Filter Cavities	CC64832-2-2C
	RX Filter Cavities	CC64832-2-2D
	RX Filter Cavities	CC64832-2-2E
	Rack, 26", DC Supply & Distribution	
	Power Controller LVBD	120743100019
	DC Rectifier Chassis	12074310021
	Flat Pack DC Rectifier 48V	114671002089
	Flat Pack DC Rectifier 48V	114671002460
	Flat Pack DC Rectifier 48V	114671002393
	Flat Pack DC Rectifier 48V	114671002106
	Flat Pack DC Rectifier 48V	114671115695
	Flat Pack DC Rectifier 48V	114571165106
	Flat Pack DC Rectifier 48V	114671115550
	Flat Pack DC Rectifier 48V	114671115694
	Flat Pack DC Rectifier 48V	114671115495
	Flat Pack DC Rectifier 48V	114571165500
	Flat Pack DC Rectifier 48V	114671115652
	Flat Pack DC Rectifier 48V	114671115586
	Flat Pack DC Rectifier 48V	114671115571
	Flat Pack DC Rectifier 48V	114671115696
	Flat Pack DC Rectifier 48V	114571165121
	Flat Pack DC Rectifier 48V	114671115618
	Flat Pack DC Rectifier 48V	114671115592
	Flat Pack DC Rectifier 48V	114571165988
	Slave 48VDC Distribution Buss	120743100032
	Main 48VDC Distribution Buss	120743100036
	Flat Pack DC Rectifier 24V	120743100036
	Flat Pack DC Rectifier 24V	120743100032
	Flat Pack DC Rectifier 24V	120743100021
	Flat Pack DC Rectifier 24V	120743100019
	Converter, 48VDC to 24VDC	120543100381
	Converter, 48VDC to 12VDC	021237098
	Converter, 48VDC to 12VDC	021237104
	Rack, Microwave, Equipment	
SMIX48	MW 48 v Plant	EPS1250780
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2669-201R1
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2669-201R2
	Microwave Battery Charger	CA1A8562
	MW Rectifier	
	MW Rectifier	
	MW Rectifier	
	Microwave, Dehydrator	A-061203936
	ATS Controller	K3055188
	ATS Switch	1634895-1
	Generator, Propane, 45Kw	SGM32279K

**STOUGHTON WT SITE 11**

DESCRIPTION	SERIAL NUMBER	OEM/HARRIS PART NUMBER
Rack,Open,86 in(Xtra Dp) with support	N/A	MASC-NMR1H
Network Sentry,IP Simulcast, DC	1000071447	CM21874-0004
Net Clock, Simulcast, MastrV	10159	OC-016344-001
Net Clock, Simulcast, MastrV	10161	OC-016344-001
7705 MPLS Router	NS1611f1689	IPMJ10GRA
Router,2921,DC,Security,w/Ether Switch	FTX1817AJBY	CMMBL00ARB
Station,MASTR V,P25T,150-174MHz	8541505	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541506	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541497	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541501	EA-555002-001
Preselector,150-160MHz,MASTR V	CC79674-76-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-77-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-78-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-79-1	FP20401B-3-1
Station,MASTR V,P25T,150-174MHz	8541499	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541500	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541498	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541502	EA-555002-001
Preselector,150-160MHz,MASTR V	CC79674-80-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-11-1	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC79674-12-1	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC79674-13-1	FP20401B-2-1
Power Amplifier,Linear,150-174MHz		EA-555014-102

Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Rack,Open,86 in(Xtra Dp) with support	N/A	MASC-NMR1H
16 CH RX Multicoupler		DBSMC1-16AA
Cisco 3400	FCW1942H0QQ	
Cable,3560v2 Switch, DC Power		COMKR00DRC
Station,MASTR V,P25T,150-174MHz	8541503	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8521504	EA-555002-001
Preselector,150-160MHz,MASTR V	CC79674-4-1	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC79674-5-1	FP20401B-2-1
Power Amplifier,Linear,150-174MHz		EA-555014-102

Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Rack,Open,86 in	N/A	SXMR1D
Convex Delay Timer		
Station,Conv MASTR III,150.8-174MHz,110W	987799778	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987799777	EA101292V12
Rack,Open,86 in	N/A	SXMR1D
Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120123085 IT441868	KRD103106/252
Station,Conv MASTR III,150.8-174MHz,110W	987792997	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987792998	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987792999	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987799776	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987793000	EA101292V12
Rack,Open,86 in	N/A	SXMR1D
Station,Conv MASTR III,150.8-174MHz,110W	987792991 (Could be 3 from above)	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987792992	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987792993	EA101292V12
P25 Transmit Combiner		
TX Combiner # 1	CC62435-1-8C	YA2-04421-01R0
TX Combiner # 1	CC62435-1-8D	YA2-04421-01R0
TX Combiner # 2	CC62435-1-8E	YA2-04421-01R0
TX Combiner # 2	CC62435-1-8F	YA2-04421-01R0
Mutual Aid Transmit Combiner		
TX Dual Stage Isolator	CC648322-2F	YA2-04670-01R0
TX Filter Cavities	CC648322-2G	YA2-04670-01R0
TX Filter Cavities	CC648322-2H	YA2-04670-01R0
TX Filter Cavities	CC648322-2I	YA2-04670-01R0
TX Filter Cavities	CC648322-2J	YA2-04670-01R0
Mutual Aid Receive Combining Solution		
RX Multicoupler	CC648322-3A	YA2-04670-01R0
RX Multicoupler	CC648322-3B	YA2-04670-01R0

RX Filter Cavities	CC648322-3C	YA2-04670-01R0
RX Filter Cavities	CC648322-3D	YA2-04670-01R0
RX Filter Cavities	CC648322-3E	YA2-04670-01R0
Rack, 26", DC Supply & Distribution		
Power Controller LVBD	120743100018	273766
DC Rectifier Chassie	12074310023	264371
Stoughton WI Site 11 DC	153971039963	
Stoughton WI Site 11 DC	153971039626	
Stoughton WI Site 11 DC	153971039762	
Stoughton WI Site 11 DC	153971039946	
Stoughton WI Site 11 DC	153971040803	
Stoughton WI Site 11 DC	153971039143	
Stoughton WI Site 11 DC	153971039711	
Slave 48VDC Distribution Buss	120743100033	263918
Main 48VDC Distribution Buss	120743100038	265430
Stoughton WI Site 11 DC	142671009820	
Stoughton WI Site 11 DC	142671009930	
Stoughton WI Site 11 DC	142571007091	
Converter, 48VDC to 24VDC	120543100379	226983
Converter, 48VDC to 12VDC	021237127	1502-48-13-30-M3
Converter, 48VDC to 12VDC	021237128	1502-48-13-30-M3
Rack, Microwave, Equipment		
MDR Radio (6.175 GHz) Microwave	als000143-202r2	MDR 9500
MDR Radio (6.175 GHz) Microwave	13-2679-203r1	MDR 800
Microwave Battery Charger	BPS1670034	SMIX48-AL8
RECTIFIER	2029121508125	
RECTIFIER	2029121508124	
Microwave, Dehydrator	A-061203931	920635-C
ATS Controller	K358094	KSS-DFNC-02005
ATS Switch	1635236-1	GM30316
Generator, Propane, 45Kw	SGM32279J	45REZG

**SUN PRAIRIE SITE 12**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070086
OC-016344-001	Net Clock, Simulcast, MastrV	01302
OC-016344-001	Net Clock, Simulcast, MastrV	01306
7705 SAR-8	7705 MPLS Router	NS120662849
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1547AJXU
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541329
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541330
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541331

MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541332
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-44
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-30
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-47
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-15
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541365
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541366
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541333
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541334
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-32
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-41
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-46
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-34
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicupler	
YA2-04421-01R0	Receiver Preselector	CC62435-1-2B
YA2-05664-01R0	Receiver Preselector	CC81020-1-4D
SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1543X2J6
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541367
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541368
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-48
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-49
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120123083
	Dual Stage Isolator	

	Convex Delay Timer	
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W Rack, 26", DC Supply and Distribution	987792994
	Rectifier Shelf	120743100222
	Flat Pack DC Rectifier 48V	114571164787
	Flat Pack DC Rectifier 48V	114571164772
	Flat Pack DC Rectifier 48V	114571166256
	Flat Pack DC Rectifier 48V	114571164876
	Flat Pack DC Rectifier 48V	114571164793
	Flat Pack DC Rectifier 48V	114571164815
	Flat Pack DC Rectifier 48V	114571164756
	Flat Pack DC Rectifier 48V	114571164765
	Flat Pack DC Rectifier 48V	114571165749
	Flat Pack DC Rectifier 48V	114571164799
	Flat Pack DC Rectifier 48V	114571164764
	DC Distribution Shelf	120743100026
	Flat Pack DC Rectifier 24V	114671002466
	Flat Pack DC Rectifier 24V	114671002013
	Converter, 48VDC to 12VDC	21237101
	Converter, 48VDC to 12VDC	021237125
	Converter, 48VDC to 24VDC	120543100376
	4.9 Link	
	POE Adapter, 4.9 to Deerfield	20480-0004336
	POE Adapter, 4.9 to Sun Prairie PD	011498
	Rack, Open, 86 in	
	TX Combiner # 1	CC63829-1-2C
	TX Combiner # 1	CC63829-1-2D
	TX Combiner # 2	CC63829-1-2E
	TX Combiner # 2	CC63829-1-2F
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792995
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799731
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (6.175 GHz) Microwave	
MDR8000	MDR Radio (6.175 GHz) Microwave	
	Microwave Battery Charger	
	Exalt Radio (4.9 GHz) Microwave	
	MW Rectifier	
	MW Rectifier	
	MW Rectifier	
	Microwave Rectifier Dehydrator	A-061203928
	ATS Controller	K3061702
	ATS Switch	1636679-1
	Generator, Diesel, 50Kw Humidity Controller	SGM3229HZ Qty. 1

**VERONA SITE 13**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070141
OC-016344-001	Net Clock, Simulcast, MastrV	01293
OC-016344-001	Net Clock, Simulcast, MastrV	01292
7705 SAR-8	7705 MPLS Router	NS120662886
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1547AJYA
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541345
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541346
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541347
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541348
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-38
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-36
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-18
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-33
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541351
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541352
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541353
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541354
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-19
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-28
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-17
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-22
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
	16 CH RX Multicoupler	
YA2-04421-01R0	Receiver Preselector	CC62435-1-1B
YA2-04421-01R0	Receiver Preselector	CC81020-1-6D
SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1543Y2EN
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541327

MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541328
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-10
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC52674-1-16
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120123086
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987793239
	Convex Delay Timer	
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	98776386
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	98778794
SXMR1D	Rack,Open,86 in	N/A
	Duplexer,	142819-A2
SXUMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799729
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799728
SXMR1D	Rack,Open,86 in	N/A
	TX Combiner # 1	CC62435-1-1C
	TX Combiner # 1	CC62435-1-1D
	TX Combiner # 2	CC62435-1-1E
	TX Combiner # 2	CC62435-1-1F
	Rack, 26", DC Supply and Distribution	
	Rectifier Shelf	120743100222
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	DC Distribution Shelf	
	Flat Pack DC Rectifier 24V	120543100375
	Flat Pack DC Rectifier 24V	112324100318
	Converter, 48VDC to 12VDC	21237129
	Converter, 48VDC to 12VDC	21237128
	Converter, 48VDC to 24VDC	120543100375
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2685-206R4
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2685-206R2
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2685-206R1

MDR8000	MDR Radio (11.200 GHz) Microwave	13-2685-206R3
	Microwave Battery Charger	
	MW Rectifier	2031081106633
	MW Rectifier	2031081106625
	MW Rectifier	2031081106626
b#tel12-180fbst0##	MW Batteries	TEL12180F0053530
b#tel12-180fbst0##	MW Batteries	TEL12180F0053549
b#tel12-180fbst0##	MW Batteries	TEL12180F0053550
b#tel12-180fbst0##	MW Batteries	TEL12180F0053551
b#tel12-180fbst0##	MW Batteries	TEL12180F0053531
b#tel12-180fbst0##	MW Batteries	TEL12180F0053552
b#tel12-180fbst0##	MW Batteries	TEL12180F0053532
b#tel12-180fbst0##	MW Batteries	TEL12180F0053553
	Microwave Rectifier Dehydrator	A-061203939
L86 4-5CONTROL	Tower Lighting Controller	46159
	4.9 GHz, Microwave to EPIC	N/A
	ATS Controller	K3058093
	ATS Switch	1635322-1
	Generator, Propane, 45Kw	SGM32279H

**WMGN SITE 14- FITCHBURG SITE**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070148
OC-016344-001	Net Clock, Simulcast, MastrV	01298
OC-016344-001	Net Clock, Simulcast, MastrV	01299
7705 SAR-8	7705 MPLS Router	NS120662880
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1542JQC
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541335
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541336
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541337
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541338
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-13
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-21
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-12
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-20
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541339
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541340
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541341
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541342
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-27
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-58
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-24
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-11
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	



	DC Distrubution Shelf	263918
	Flat Pack DC Rectifier 48V	114571166244
	Flat Pack DC Rectifier 48V	161471086403
	Flat Pack DC Rectifier 48V	114571166002
	Flat Pack DC Rectifier 48V	114571166039
	Flat Pack DC Rectifier 48V	114571166253
	Flat Pack DC Rectifier 48V	114571166235
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (6.175 GHz) Microwave	13-2668-208r1
MDR8000	Exalt Radio Microwave	
SMIXZ48-ALCAT	MW PWR PLANT	IPS1252953
	Microwave Battery Charger	
	Rack, Open, 86 in	
VJCJPSX	JPS Voters FR LAW TAC TA	C128075
VJCJPSX	JPS Voters FR PS TA	C128047
VJCJPSX	JPS Voters FR FG TA	C128077
VJCJPSX	JPS Voters F3 FR LAW TAC	C128065
VJCJPSX	JPS Voters F2 FR PS	C128082
VJCJPSX	JPS Voters F1 FR FG	C128074
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120816067 IT457582
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	120816065 IT457581
MANG-4DVUS	Chassis,4-Slot Interoperability Gateway	81204210
MANG-4DVUS	Chassis,4-Slot Interoperability Gateway	3513
	Router,2911,DC,Security,w/Ether Switch	SFTX167ALNA
	Rack, Open, 86 in	
	Dual Isolator, Freq 154.1750 & 154.2425	CC63769-1-1A
	Dual Isolator, Freq 154.1750 & 154.2425	CC63769-1-1B
	TX Combiner Cavities	CC63769-1-1C
	ATS Controller	SGM3294XP
	ATS Switch	1878837-1
	Generator, Propane, 45Kw	SGM329F45
ALL RX	CONV AUX RX BASE	
CHAN 3	AUX RX	
PDU		
	DB SPECTRA MULTI COUPLER	

**MCKEE SITE 15**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000070146
OC-016344-001	Net Clock, Simulcast, MastrV	01296
OC-016344-001	Net Clock, Simulcast, MastrV	01300
7705 SAR-8	7705 MPLS Router	NS120662904
VSCR14	Router,2921,DC,Security,w/Ether Switch	FTX1547AJYC
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541355
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541363
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541359

MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541361
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-23
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-26
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-16
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-14
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541358
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541360
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541362
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541364
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-25
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-29
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-35
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-39
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
	Humidity Controller	Qty. 1
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicupler	
SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1543X2JQ
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541349
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541350
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-45
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC56843-1-31
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
	Rack, Open, 86 in	
	TX Combiner # 1	CC62435-1-3C
	TX Combiner # 1	CC62435-1-3D
	TX Combiner # 2	CC62435-1-3E
	TX Combiner # 2	CC62435-1-3F
	Rack, 26", DC Supply and Distribution	

	Rectifier Shelf	1207431100219
	DC Distribution Shelf	1207431100030
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Flat Pack DC Rectifier 48V	
	Rack, Microwave, Equipment	
MDR8000	MDR Radio (11.200 GHz) Microwave	
	Microwave Battery Charger	
	Rectifier	
	Rectifier	
	Microwave Rectifier Dehydrator	A-061203930

**DEERFIELD SITE 16**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS 4.9Ghz Link to Sun Prairie	120130133 IT441873
CM-027501-411	Cisco2911-SEC/K9	FTX1544ALJ2
	MPLS Router 7705	NS120662904
	Convex Delay Timer	
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792974
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987793238
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792975
SXMR1D	Rack,Open,86 in	N/A
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792977
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792976
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792978
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987792979
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799768
	Rack,Open,86 in, 26" Wide	
	DC Distribution	120743100027
	DC Rectifier Shelf	120843100001
	Flat Pack DC Rectifier 48V	114571166013
	Flat Pack DC Rectifier 48V	114571165512
	Flat Pack DC Rectifier 48V	114571166264
	Flat Pack DC Rectifier 48V	114571163849
	Flat Pack DC Rectifier 48V	114571165437
	Flat Pack DC Rectifier 24V	114271000658
	Flat Pack DC Rectifier 24V	114271000653

	Flat Pack DC Rectifier 24V	114271001279
	Converter, 48VDC to 12VDC	21237130
	Converter, 48VDC to 12VDC	21237131
	Rack,Open,86 in, 26" Wide	
	Converter 48VDC to 12VDC	021237131
	Converter 48VDC to 12VDC	021237130
	Converter 48VDC to 24VDC	120543100378
	16 Port Network I/O Controller	1340080-020 00004
	Exalt (4.9 GHz) Radio Microwave	
	Transmit Combiner	
	TX Combiner # 1	
	TX Combiner # 1	
	TX Combiner # 2	
	TX Combiner # 2	
	Mutual Aid Transmit Combiner	
	TX Dual Stage Isolator	
	TX Filter Cavities	
	TX Filter Cavities	
	TX Filter Cavities	
	TX Filter Cavities	
	Mutual Aid Receive Combining Solution	
	RX Multicoupler	
	RX Multicoupler	
	RX Filter Cavities	
	RX Filter Cavities	
	RX Filter Cavities	
	GPS spectra com	
	Sinclair multi coupler	
		7705
	GPS spectra com	

**WJJO SITE 17**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
CP-MD7A-DC	Network Sentry,IP Simulcast, DC	1000071418
OC-016344-001	Net Clock, Simulcast, MastrV	8507
OC-016344-001	Net Clock, Simulcast, MastrV	8510
7705 SAR-8	7705 MPLS Router	NS1611F1540
VSCR14	Router,2921,DC,Security,w/Ether Switch	FJC1927A1BP
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541496
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541495
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541494
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541493
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-66-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-67-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-68-1

MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-69-1
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541488
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541482
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541490
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541489
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-70-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-1-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-2-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-3-1
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASC-NMR1H	Rack,Open,86 in(Xtra Dp) with support	N/A
DBSMC1-16AA	16 CH RX Multicoupler	
	P25 Multicoupler	CC81020-2-3A
	P25 Pre Amp	CC81020-2-3B
	P25 Pre Amp	CC62435-1-6B
SV-CL2D-DC	Cable,3560v2 Switch, DC Power	FDO1544Y280
	Cisco 3400E	FCW1941H00R
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541487
MASV-HTXMV	Station,MASTR V,P25T,150-174MHz	8541491
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-9-1
MASV-NRF5D	Preselector,150-160MHz,MASTR V	CC79674-10-1
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
MASV-NAW5G	Power Amplifier,Linear,150-174MHz	
SV-PS2P-DC	Power Supply,-48V,DC,MASTR V	
	Rack, Open, 86 in, P25 TX Combiner	
	TX Combiner # 1	CC81020-2-3F
	TX Combiner # 1	CC81020-2-3G
	TX Combiner # 2	CC81020-2-3D
	TX Combiner # 2	CC81020-2-3E

	TX Dual Stage Isolator (10 UNITS)	CC648322-2F
	TX Filter Cavities	CC648322-2G
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,-48DPS	160301276 IT503443
	DC-12V (-48 TO 12VDC CONVERT)	161343001288
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	C1430C36F77
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	C1424C35940
	AT MULTI COUPLER	CC81442-1-7A
SXMR1D	Rack,Open,86 in	N/A
	TX Combiner # 1	CC80775-1-6B
	RX Combiner # 1	CC80774-1-6C
	TX Dual Stage Isolator (2 UNITS)	
	Rack, Microwave, Equipment	
MDR9500	MDR Radio (6.175 GHz) Microwave	3DB19060AA
MDR8000	MDR Radio (6.175 GHz) Microwave	
	Microwave Battery Charger	
	Rectifier	2029121508157
	Rectifier	2029121508156
	Microwave Rectifier Dehydrator	A-061203930
	16 Port Network I/O Controller	1340080-020 00004
	Rack, 26", DC Supply and Distribution	
	Rectifier Shelf	120743100222
	Flat Pack DC Rectifier 48V	154771065481
	Flat Pack DC Rectifier 48V	154771066982
	Flat Pack DC Rectifier 48V	154771067057
	Flat Pack DC Rectifier 48V	154771065956
	Flat Pack DC Rectifier 48V	154771065191
	Flat Pack DC Rectifier 48V	154771066981
	Flat Pack DC Rectifier 48V	154771067060
	Flat Pack DC Rectifier 48V	142571007009
	Flat Pack DC Rectifier 48V	142671009814
	Flat Pack DC Rectifier 48V	142671009838
	DC Distrubution Shelf	

**ROCKDALE SITE 18**

DESCRIPTION	SERIAL NUMBER	OEM/HARRIS PART NUMBER
Rack,Open,86 in(Xtra Dp) with support	N/A	MASC-NMR1H
Network Sentry,IP Simulcast, DC	1000070140	CM21874-0003
Net Clock, Simulcast, MastrV	1303	OC-016344-001
Net Clock, Simulcast, MastrV	1301	OC-016344-001
7705 MPLS Router	NS120662856	IPMJ10GRA
Router,2921,DC,Security,w/Ether Switch	FTX1547AJY3	CMMBL00ARB

County of Dane, Wisconsin

Station,MASTR V,P25T,150-174MHz	8541299	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541300	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541301	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541302	EA-555002-001
Preselector,150-160MHz,MASTR V	CC79674-21-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-31-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-41-1	FP20401B-3-1
Preselector,150-160MHz,MASTR V	CC79674-51-1	FP20401B-3-1
Station,MASTR V,P25T,150-174MHz	8541303	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541304	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541305	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541306	EA-555002-001
	Humidity Controller	Qty. 1
Preselector,150-160MHz,MASTR V	CC52913-1-15	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC52913-1-6	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC52913-1-20	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC52913-1-7	FP20401B-2-1
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102

Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Rack,Open,86 in(Xtra Dp) with support	N/A	MASC-NMR1H
16 CH RX Multicupler (8x2)		
Cable,3560v2 Switch, DC Power	FDO1544Y280	COMKR00DRC
Station,MASTR V,P25T,150-174MHz	8541307	EA-555002-001
Station,MASTR V,P25T,150-174MHz	8541308	EA-555002-001
Preselector,150-160MHz,MASTR V	CC52913-1-20	FP20401B-2-1
Preselector,150-160MHz,MASTR V	CC52913-1-11	FP20401B-2-1
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Power Amplifier,Linear,150-174MHz		EA-555014-102
Power Supply,-48V,DC,MASTR V		EA-555011-003
Rack, Open, 86 in, P25 TX Combiner		
TX Combiner # 1	CC62435-1-4C	YA2-04421-01R0
TX Combiner # 1	CC62435-1-4D	YA2-04421-01R0
TX Combiner # 2	CC62435-1-4E	YA2-04421-01R0
TX Combiner # 2	CC62435-1-4F	YA2-04421-01R0
TX Dual Stage Isolator (10 UNITS)	CC648322-2F	YA2-04670-01R0

P25 MULTICOUPLER	CC63829-1-5	YA2-04421-01R0
PRE AMP	CC81020-2-3C	YA2-05665-01R0
PRE AMP	CC81020-1-7D	YA2-05664-01R0
Rack,Open,86 in	N/A	SXMR1D
Multiplexer,Tx,12Ch,w/o IEA,+24DPS	160301298 IT503447	KRD103106/252
Dual Stage Isolator		
Convex Delay Timer		
Station,Conv MASTR III,150.8-174MHz,110W	987792991	EA101292V12
12 VOLT	15380116	DST-20
Rack,Open,86 in	N/A	SXMR1D
MULTICOUPLER AT	CC81442-1-11A	YA2-05666-01R0
Station,Conv MASTR III,150.8-174MHz,110W	987792993	EA101292V12
Station,Conv MASTR III,150.8-174MHz,110W	987792992	EA101292V12
MDR Radio (6.175 GHz) Microwave	als000192-201r1	
MDR Radio (6.175 GHz) Microwave	als000192-201r2	
Microwave Battery Charger		
PWR PLANT	DPS1250639	
MW Rectifier	2029011205589	
MW Rectifier	2029011205590	
Rack, 26", DC Supply and Distribution		
Rectifier Shelf		264371
Flat Pack DC Rectifier 48V	114671002288	
Flat Pack DC Rectifier 48V	114671002086	
Flat Pack DC Rectifier 48V	114671002123	
Flat Pack DC Rectifier 48V	114671002014	
Flat Pack DC Rectifier 48V	114671002094	
Flat Pack DC Rectifier 48V	114671002087	
Flat Pack DC Rectifier 48V	114571165398	
Flat Pack DC Rectifier 48V	114371118975	
Flat Pack DC Rectifier 48V	114571101682	
Flat Pack DC Rectifier 48V	114571166124	
Flat Pack DC Rectifier 48V	114571163673	
Flat Pack DC Rectifier 48V	114571101310	
Flat Pack DC Rectifier 48V	114571165191	
Flat Pack DC Rectifier 48V	150671028137	
Flat Pack DC Rectifier 48V	114571101580	
Flat Pack DC Rectifier 48V	114571101678	
Flat Pack DC Rectifier 48V	114571165294	

Flat Pack DC Rectifier 48V	150671027489	
Flat Pack DC Rectifier 48V	114571100801	
Flat Pack DC Rectifier 48V	114371139081	
Flat Pack DC Rectifier 48V	114571166054	
DC Distribution Shelf		
Converter, 48VDC to 12VDC	21237127	1502-48-13-30-M3
Converter, 48VDC to 12VDC	21237128	1502-48-13-30-M3

**DEFOREST SITE 19**

SERIAL NUMBER	OEM/HARRIS PART NUMBER	
N/A	MASC-NMR1H	
1000071454	CM21874-0003	
8500	1200-H002-0601	
10166	OC-016344-001	
NS1607F1296	3HE05051ABAF01	
FJC1936A0NU	CMMBL00ARB	
8541516	EA-555002-001	
8541515	EA-555002-001	
8541512	EA-555002-001	
8541513	EA-555002-001	
CC79674-71-1	FP20401B-2-1	
CC79674-72-1	FP20401B-2-1	
CC79674-73-1	FP20401B-2-1	
CC79674-74-1	FP20401B-2-1	
8541514	EA-555002-001	
8541509	EA-555002-001	
8541508	EA-555002-001	
8541510	EA-555002-001	
CC79674-75-1	FP20401B-2-1	
CC79674-6-1	FP20401B-2-1	
CC79674-7-1	FP20401B-2-1	
CC79674-8-1	FP20401B-2-1	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	
	EA-555014-102	
	EA-555011-003	

	EA-555014-102
	EA-555011-003
N/A	MASC-NMR1H
160301273	KRD103106/252
FCW1928H11M	COUPAF8BAA
8541511	EA-555002-001
8541507	EA-555002-001
CC52913-1-13	FP20401B-2-1
CC52913-1-11	FP20401B-2-1
	EA-555014-102
	EA-555011-003
	EA-555014-102
	EA-555011-003
CC81020-2-2E	YA05665-01R0
CC81020-2-2G	YA05665-01R0
CC81020-2-2D	YA05665-01R0
CC81020-2-2F	YA05665-01R0
CC648322-2F	
160301273 IT503440	KRD103106/252
987799761	EA101292V12
N/A	SXMR1D
987799786	EA101292V12
987799787	EA101292V12
YA2-05666-01 R0	CC80775-2-1C
YA2-05666-01 R0	CC80775-2-?C
YA2-05666-01 R0	CCS1442-1-2A
153471024453	Compack 242100.400
153171050918	FS2 PS 4 273820
161343001294	FP216 PWRCR -48/600
142671009733	
142571007107	
154771067046	
153971039532	
154771065991	
153971040656	
153971040838	
161343001297	
153171050918	
15380114	405-4000-1 C

**BRIGHAM AT SITE 20**

SAP PART NUMBER	DESCRIPTION	SERIAL NUMBER
	Rack, 26", DC Supply and Distribution	
	Rectifier Shelf	264371
	DC Distribution Shelf	263918
	Flat Pack DC Rectifier 48V	153171050921

	Flat Pack DC Rectifier 48V	153971040927
	Flat Pack DC Rectifier 48V	153971039473
	Flat Pack DC Rectifier 48V	153971040972
	Flat Pack DC Rectifier 48V	161343000110
	Flat Pack DC Rectifier 48V	161343000109
	Battery	1510180534
	Battery	1510180525
	Battery	1510180524
	Battery	1510180533
	Battery	1510180535
	Battery	1510180532
	Battery	1510180537
	Battery	1510180538
	Battery	1510180536
	Battery	1510180539
	Battery	1510180531
	Battery	1510180540
	Newmar DC Distribution	15380113
	48-12 Converter	161343001287
	16 Port Network I/O Controller	1340080-020 00004
SXMR1D	Rack,Open,86 in	N/A
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799760
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799761
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799762
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799763
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799764
SXMR1D	Rack,Open,86 in	N/A
KRD103106/252	Multiplexer,Tx,12Ch,w/o IEA,+24DPS	160301278 IT503445
	Dual Stage Isolator	
	Convex Delay Timer	
	flat pack Dc-DC 24	142671009819
	flat pack Dc-DC 24	142671009880
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799772
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799771
SXHMCX	Station,Conv MASTR III,150.8-174MHz,110W	987799770
	Transmit Combiner	
	TX Combiner # 1	
	TX Combiner # 1	
	TX Combiner # 2	
	TX Combiner # 2	
	Mutual Aid Transmit Combiner	
	TX Dual Stage Isolator	
	TX Filter Cavities	
	TX Filter Cavities	
	TX Filter Cavities	

	TX Filter Cavities	
	Mutual Aid Receive Combining Solution	
	RX Multicoupler	
	RX Multicoupler	
	RX Filter Cavities	
	RX Filter Cavities	
	RX Filter Cavities	

**SPARES LIST**

Rev 3. (9-14-2017)

The following is an updated Spares List of Spares purchased by County for radio equipment that will be used for County's radio system and will be shipped to and stored at Harris' Subcontractor's service center. **SPARE(s)**-means required additional equipment to be purchased by County for use to complete repairs of critical equipment.

Description	Qty
Spectracom Secure Sync GPS Master Oscillator 1200-433 GPS/Rb 48VDC	1
Spectracom Option Card adds 10MHz Outputs	1
Spectracom Option Card adds Simulcast Outputs	1
Spectracom Model 8230 GPS Antenna	2
INTRAPLEX T1 LINE REDUNDANT COMMON MODULE IX-CM-5RB	2
INTRAPLEX NTWK INT T1 100W CSU RJ48C IX-MA-215	2
Dry Contact Card	2
MUX Card	2
MODEL 2604, MCS-11 POLLING ENGINE	1
FAN/ALARM MODULE SAR-8 V2 -48/+24VDC	1
Verona Tower Lighting for Dual Red and White Strobe Controller, Model E2/3DB2, complete with Photocell	1
Rockdale, Roxbury site controller	1
Micro pack DC-DC	2
COMPAC Controller	1
Smart pack Panel	1
Smart pack Alarm	1
Smart pack Ethernet /Alarms	1
Smart pack Display/Control	1
Automatic Line Dehydrator	1
Preamp SD-15C-12-48 VDC POWER SUPPLY	1
Preamp 172 MHz 50W 36-72VDC IN 11-16VDC OUT TUNEABLE	1
Preamp 150 MHz POWER SUPPLY AC/DC 50W 15V 3.4A RS-50	1
Network Sentry	1
dial-access paging terminal	1
Intelligent Radio Interface Module	1
Viking - VM600 (7/800 MHz)	1
Audio/PTT Summing Matrix	1

Audio Summing Matrix	1
Audio Distribution Amp	1
VOICE OPTIMIZER NBL4	1
Exalt Extend Air 4.9 GHZ, POINT - POINT RADIO	1
4-Slot Chassis Assembly (Includes Fan Tray and DC Power Cord)	1
Power Supply, DC,	1
Unified Audio Card (UAC), 4-channel	1
Symphony replacement Hard Drive	2
Network Sentry replacement Hard Drive	2
Shipping and Handling (shipping will be billed at cost not to exceed \$1000)	1

<b>Description</b>	<b>Qty</b>
MASTR V 150-174 Receive Module	4
MASTR V 150-174 Transmit Module	4
MASTR V Baseband Processor Module	3
MASTR V Traffic Controller Module	3
MASTR V Ethernet Switch Module	4
MASTR V 14 Slot Shelf	2
MASTR V HPA/PS Shelf	3
MASTR V Power Supply	6
MASTR V Power Supply	2
MASTR V PA 150-174	4
MASTR III PA 150-174 110 WATTS	12
MASTR III POWER SUPPLY	2
MASTR III Complete paging base/w AC supply	1
MASTR III Full Chasis	2
Relay interface	1
Receiver	1
Receiver 11.2-11.7	1
8 Port Ethernet Card V.2	3
PA 5.725G- 6.425 +32	1
PA 6.425 7.125 +34	1
PA 5.850 6.425	1
PA	1
PA 5.725G- 6.425 +26	1
Transmit Module 11.2Ghz-11.7Ghz	1
PA 10.7-11.2Ghz	1
Transmit Module 10.7.2Ghz-11.2Ghz	1
Transmitter Module 5.725-6.425Ghz	2
PA 11.2-11.7Ghz +	1
Receiver 11.7-11.2Ghz	1
PS Assy	1
Ethernet Interface 32D	1
Controller	1
16 Port T1/E1 ASAP Card B2	2

Receiver 5.725-6.425Ghz	1
T1 Breakout	1
Console Speaker	2
Desk Mic	1
Mobile Mic	3
Control Station	3
Controller Card	2
Power Supply	4
Audio Card	11
Power Supply	2
Controller Term Card	5
T1 Interface	1
DB25 Audio Interface	6
Intraplex Chasis	2
Time Delay Card	1
Voter-Complete w/2 svm	1
Router	7
Router	1
Ethernet Switch Module	1
Ethernet Switch Module	5
Router	1
Router	1
Switch	2
Control Switch Module CSM	1
Control Switch Module CSM	1
8 PORT ETHERNET CARD	1
8 PORT SAR-8 7705	1
9500 MPR MICROWAVE	1
9500 MPT-HLC XCVR	1
FAN CARD	1
9500 MPT SHELF	1
Card Controller	1
EASV2	1
Headset Jack Symphony	5
Desk Mic	5
Foot Switch/USB	6
IPIO16	1
MASTR III POWER MOD	1
MASTR III TX Synth MOD	1
MASTR III RX SYNTH MOD	1
MASTR III IF MOD	1
MASTR III System	1
MASTR III RX FRONT END MOD	1
7705 FAN (Does not fit)	1
UD-35AN-8 (Upper 6)	1

MDR8000 PA +29 (Upper 6)	1
MDR8000 AN TX (Upper 6)	1
Duet	3
Symphony Console PC	2
Symphony Console PC	1
Symphony Console PC	1
SY250	4
SD218	2

**ADDENDUM VI**

**REPORT TABLE**

<b>REPORT TYPE</b>	<b>FREQUENCY</b>
II DEPOT REPAIR SERVICES – WEEKLY RMA REPORT	Weekly Deliverable
V. FX SOFTWARE UPDATE INSTALLATION	Quarterly Deliverable
IV. ANNUAL PREVENTIVE MAINTENANCE	Annual Deliverable
V. SUMS SECURITY UPDATE INSTALLATION	Make Available Deliverable
VII. SYSTEM/NOC MONITORING	Monthly Deliverable
OTHER MAINTENANCE SERVICES – TROUBLE TICKET REPORT	Monthly Deliverable