



CHANGE ORDER

[#008]

Change Order No. 08-B

Date: 09/17/19

Project Name: MERA Next Generation Radio System

Customer Name: Marin County

Customer Project Mgr: Ernest Klock

The purpose of this Change Order is to:

Capture the following changes:

1. Addition of MPLS hardware, system design, implementation services, and training - including the provisioning of non-LMR traffic, and warranty and post-warranty services (years 4-15)
2. Deletion of one microwave network refresh

Contract # 31701399

Contract Date: 03/07/17

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

Contract Price Adjustments

Original Contract Value:	\$ 34,337,451.06
Previous Change Order amounts for Change Order numbers 0-7 through 9-10	\$ 7,653,457.77
This Change Order:	\$ 1,367,839.86
Existing Contract Credit:	\$ 0.00
Net Contract Impact of this Change Order:	\$ 1,367,839.86
New Contract Value:	\$ 43,358,748.69

Completion Date Adjustments

Original Completion Date:	3/27/2019
Current Completion Date prior to this Change Order:	12/27/2022
New Completion Date:	12/27/2022

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

Please refer to the attached equipment list for new MPLS equipment. All Layer 2 related equipment will be removed

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

Please refer to the attached Scope of Work (SOW) document for MPLS design and implementation SOW. One microwave network refresh, which involves a complete replacement of all 9500 MPR microwave radios (dishes, lines, dehydrators are excluded), is removed from the contract's scope of work and applied as credit towards the purchase of this Change Order

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

The project schedule will be finalized upon CDR approvals and is contingent upon CEQA and site construction timelines

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

Please refer to the attached pricing summary sheet
Please note that taxes are estimated at 9% but the final number will be determined based on where the equipment will be shipped

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

Please refer to the attached Scope of Work (SOW) document

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

The payment milestone plan for this Change Order is the following:

1. 20% of the Change Order price upon signing of this Change Order
2. 45% of the Change Order price upon shipment of equipment
3. 25% of the Change Order price upon completion of installation (site by site)
4. 10% of the Change Order price upon final system acceptance

If Subscribers are purchased, 100% of the Subscriber Contract Price will be invoiced upon shipment (as shipped).

Motorola may make partial shipments of Equipment and will request payment upon shipment of such Equipment. In addition, Motorola will invoice for installations completed on a site-by-site basis or when professional services are completed, when applicable. The value of the Equipment shipped/services performed will be determined by the value of the shipped/services performed as a percentage of the total milestone value. Unless otherwise specified, contract discounts are based upon all items proposed and overall System package. For invoicing purposes only, discounts will be applied proportionately to the FNE and Subscriber Equipment values to total Contract Price. Overdue invoices will bear simple interest at the maximum allowable rate.

For Lifecycle Support Plan and Subscription Based Services:

Motorola will invoice Customer annually in advance of each year of the plan. The annual warranty and post-warranty services costs quoted in this Change Order (Appendix D of the attachment) is in addition to the original contract's annual costs of tech support and infrastructure replacement, SUA II, and Nokia's Maintenance and Upgrade Program for the MPR 9500 system.

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

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

**Motorola Solutions,
Inc.**

Customer

By: _____
Printed Name: KENT MARTIN
Title: Regional Services Manager
Date: September 17, 2019

By: _____
Printed Name: _____
Title: _____
Date: _____

Reviewed by: Kourosh Mostashari

Motorola Solutions Project Manager

Date: September 17, 2019

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CHANGE ORDER #8 ATTACHMENT

SEPTEMBER 17, 2019

CHANGE ORDER #8 ATTACHMENT

The following changes have been captured in Change Order #8:

1. Addition of MPLS hardware, system design, implementation services, and training - including the provisioning of non-LMR traffic, warranty and post-warranty services (4-15)
2. Deletion of one microwave network refresh, which involves a complete replacement of all 9500 MPR microwave radios (dishes, lines, dehydrators are excluded)

Summary of services included for this item is the following:

- Establish the system architecture and logically identify which networks/sites need to communicate within the system
- Define and build the bandwidth requirements document (TNDT report) for each site
- Define the QoS values for ASTRO and other applications
- Determine demarcation points at each site for non-ASTRO traffic
- Review and validate all the requirements identified in Appendix A
- Define and build the WAN Transport IP Plan for ASTRO application based on the logical design
- Gather, validate and input TNCT parameter for config generation, validation and configuration file generation
- Build and deploy MPLS Configuration files. This includes the Network Management Subsystem
- Ensure all MPLS equipment is installed and connected as specified in the rack drawings
- Ensure physical connectivity has been tested and validated before validating service/logical connectivity
- Each service logical path will be tested using the Y.1564 testing method to validate the design specifications
- Provide As-Built Documentation for provided equipment; this will include a network drawing and final IP plan
- Provide all router configuration files and audit of each device

Summary of the warranty and post-warranty services are the following:

- **RTS Gold** – Remote Technical Support, Gold. The NOKIA Technical Support (TS) Service provides the customer remote access to NOKIA engineers in support of product-related questions, troubleshooting assistance, diagnostic procedures, Patch Releases and Maintenance Releases, as may be made available, to restore service and/or functionality and resolve problems for Maintained Products. Customer access is provided via phone or email to the Welcome Center or, if available, via web-based Online Customer Support 24 hours a day, 365 days a year, to open a ticket or ‘Assistance Request’ (“AR”).

- **RES-AES-NBD** – Repair & Exchange Services, Advanced Exchange Service, Next Business Day The NOKIA Repair & Exchange Services (RES) provides repair or exchange of defective, customer-owned hardware (Parts). Upon receipt and acceptance of a ‘Part Request’ from the Customer, NOKIA will provide a functioning part from the list of RES Entitled Parts (based on existing customer configuration). The functioning part is delivered within the next business day (NBD) in advance of the Defective Return from the Customer except for RES Entitled Parts that require customer configuration before dispatch, require SW installation before dispatch or exceed 60 lbs. (27 kg). Upon receiving the replacement Part, Customer will ship or return the reported defective Part to Seller within five (5) Calendar Days.
- **SSP** – Software Subscription Plan for nodal equipment. **SRS** – Software Release Service for NFM-P network management systems. The NOKIA SSP or SRS makes available all Feature Releases of software for network/node elements and management systems for specific network elements or families of network elements, and other network-related applications available for download from a NOKIA web site. Professional Services to provide Installation or application of such software upgrades, is not included in SSP or SRS.

Please note that the warranty and post-warranty pricing in this Change Order captures **one** MPLS hardware network refresh, which includes the replacement of 7705-SAR 8 routers only (or the available alternative at the time).

In collaboration with MERA, Motorola has identified the non-LMR traffic (such as IP cameras) that will be provisioned on the MPLS network as per Appendix A.

The detailed MPLS equipment list has been provided in Appendix B.

APPENDIX A – NON-LMR TRAFFIC



APPENDIX B – EQUIPMENT LIST



<div>NOKIA</div>																				
Item	Part Number	Description	BIG ROCK	CIVIC CENTER	COYOTE PEAK	DOLLAR HILL	EOF	MILL VALLEY WT	MT BARNABE	MT TAMALPAIS	MT TIBURON	MUIR BEACH	OTA BROADCASTING	PT REYES	SAN PEDRO	SKYVIEW WT	SONOMA MT	STEWART PT	TOMALES	WOLFBACK RIDGE
10.00		7705-SAR-8																		
10.01	3HE06791AA	SAR-8 SHELF V2	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1
10.02	3HE06792AA	Fan Module (SAR-8 Shelf V2) Ext Temp -48VDC	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1
10.03	3HE02774AB	CONTROL SWITCH MODULE V2 (CSMV2)	2	2	2	2	4	2	2	4	2	2	2	2	2	2	2	2	2	2
10.04	3HE02784KA	SAR RELEASE 8.0 BASIC OS LICENSE	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1
10.05	3HE02782AA	Packet Microwave Card (-48/+24 VDC)	2	2	2	2	2	2	2	6	2	2	2	2	2	2	2	2	2	2
10.06	3HE02776AB	8 PORT GE/FE ETHERNET CARD V2		1																
10.07	3HE02775AB	16 PORT T1/E1 ASAP CARD V2 (-48/+24 VDC)		1			1		1											
10.08	3HE03391AB	12P SERIAL DATA CARD V2 -48/+24VDC	1	1																
10.09	3HE03126AA	6 port E&M Interface Card							1	1										
10.10	3HE03394AA	32 PORT T1/E1 RJ45 PANEL		1			1		1											
10.11	3HE03397AA	T1/E1 CABLE FOR DISTRIBUTION PANEL 1M		1			1		1											
10.12	3HE04507AB	RS232 Cable - 2M	2	2																
10.13	3HE04511AA	6 PORT RS232 DISTRIBUTION PANEL	2	2																
10.14	3HE03401AA	SYNCHRONIZATION Y- CABLE	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1
10.15	3HE00062CB	SFP - GIGE BASE-T RJ45 R6/6 DDM -40/85C	8	10	8	8	8	8	8	24	8	8	8	8	8	8	8	8	8	8
10.16	3HE00027CA	SFP - GIGE SX - LC ROHS 6/6 DDM -40/85C	4	4	4	4	4	4	4	12	4	4	4	4	4	4	4	4	4	4
11.00		7705 Spares																		
11.01	3HE06791AA	SAR-8 SHELF V2	1																	
11.02	3HE06792AA	Fan Module (SAR-8 Shelf V2) Ext Temp -48VDC	1																	
11.03	3HE02774AB	CONTROL SWITCH MODULE V2 (CSMV2)	2																	
11.04	3HE02782AA	Packet Microwave Card (-48/+24 VDC)	2																	
11.05	3HE02776AB	8 PORT GE/FE ETHERNET CARD V2	2																	
11.06	3HE02775AB	16 PORT T1/E1 ASAP CARD V2 (-48/+24 VDC)	2																	
11.07	3HE03391AB	12P SERIAL DATA CARD V2 -48/+24VDC	2																	
11.08	3HE03126AA	6 port E&M Interface Card	2																	
11.09	3HE00062CB	SFP - GIGE BASE-T RJ45 R6/6 DDM -40/85C	9																	
11.10	3HE00027CA	SFP - GIGE SX - LC ROHS 6/6 DDM -40/85C	4																	
8.00		NFM-P																		
8.01	3HE11799DA	NSP 18: NFM-P STANDARD BASE	1																	
8.02	3HE11801DA	NSP 18: NFM-P STANDARD LP	23	33	18	18	31	18	28	51	18	18	18	18	18	18	18	18	18	18
8.03	3HE11803DA	NSP 18: NFM-P HIGH AVAILABILITY LP	23	33	18	18	31	18	28	51	18	18	18	18	18	18	18	18	18	18
9.00		Software / OS Upgrades																		
9.01	3HE02785XX	7705 SAR RELEASE X.0 BASIC OS UPGRADE (2 OS level upgrades)	2	2	2	2	4	2	2	4	2	2	2	2	2	2	2	2	2	2
9.02	3HE10161AA	NFM SRS 2 years (2 NFM sw upgrades)	2																	

APPENDIX C – PRICING SUMMARY



Equipment	Price
L2 Equipment Credit	\$ (210,774.64)
MPLS Equipment Cost	\$ 606,337.50
Total	\$ 395,562.86
Implementation Services	Price
MPLS Implementation Costs	\$ 230,000.00
Total	\$ 230,000.00

Training	Price
MPLS Training Costs	\$ 15,000.00
Total	\$ 15,000.00
Total MPLS Equipment, Implementation Services, and Training	\$ 640,562.86

Life Cycles Services	Price
Software Subscription Plan - 16 MSS shelves, Years 4-10 and TS Support for TSM8000 Years 4-10	\$ (138,553.78)
One Microwave Network Refresh Credit	\$ (413,253.00)
MPLS Extended Warranty Services (as per SOW) for Years 4-15	\$ 1,243,483.78
Total Life Cycles Services	\$ 691,677.00

Price Summary	
	Price
MPLS Equipment, Implementation Services, and Training after discount	\$ 640,562.86
MPLS Extended Warranty Services (as per SOW) for Years 4-15	\$ 691,677.00
Total	\$ 1,332,239.86
Estimated Equipment Taxes at 9%	\$ 35,600.00
Final Price	\$ 1,367,839.86

Milestone Plan for Extended Warranty Services for Years 4-15

Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	TOTAL
\$ 48,402.53	\$ 48,402.53	\$ 56,068.59	\$ 56,068.59	\$ 56,068.59	\$ 56,068.59	\$ 60,936.33	\$ 61,932.25	\$ 61,932.25	\$ 61,932.25	\$ 61,932.25	\$ 61,932.25	\$ 691,677.00

Milestone Plan for MPLS Equipment, Implementation Services, and Training Total (including taxes)	\$ 676,162.86
Payment Milestone	Payment Amount
20% of the Change Order price upon signing of the Change Order	\$ 135,232.57
45% of the Change Order price upon shipment of equipment	\$ 304,273.29
25% of the Change Order price upon completion of installation (site by site)	\$ 169,040.72
10% of the Change Order price upon final system acceptance	\$ 67,616.29
Total	\$ 676,162.86