



East Bay Regional Communications System Authority



Participating agencies include Alameda and Contra Costa Counties and the following cities and special districts: Alameda, Albany, Antioch, Berkeley, Brentwood, Clayton, Concord, Danville, Dublin, El Cerrito, Emeryville, Fremont, Hayward, Hercules, Lafayette, Livermore, Martinez, Moraga, Newark, Oakley, Pinole, Pittsburg, Pleasant Hill, Pleasanton, Richmond, San Leandro, San Pablo, San Ramon, Union City, Walnut Creek, East Bay Regional Park District, Kensington Police Community Services District, Livermore Amador Valley Transit Authority, Moraga-Orinda Fire District, Rodeo-Hercules Fire District, San Ramon Valley Fire District, California Department of Transportation, Ohlone Community College District, Contra Costa Community College District, Dublin-San Ramon Services District and University of California, Berkeley

OPERATIONS COMMITTEE MEETING

NOTICE OF REGULAR MEETING

DATE: February 22, 2019

TIME: 9:30 a.m.

PLACE: Alameda County Office of Homeland Security and Emergency Services,
Room 1013
4985 Broder Blvd., Dublin, CA 94568

AGENDA

1. Call to Order/Roll Call
2. Public Comments (Meeting Open to the Public):
At this time, the public is permitted to address the Committee on items within the Committee's subject matter jurisdiction that do not appear on the agenda. Please limit comments to a maximum of three (3) minutes. If you wish to comment on an item that is on the agenda, please wait until the item is read for consideration.
3. Approval of Minutes of the August 31, 2018, Operations Committee Meeting
4. 2019 EBRCSA Calendar Committee and Board Meetings
5. Discussion of nominations for the Board of Directors Chair and Vice Chair to be voted on and take effect at the close of the meeting on March 1, 2019
6. Amendment to Agreement with California Generator for Scheduled Three-Year Preventative Maintenance, Coolant System Services, and Budget Change
7. Walton Lane Simulcast Site
8. Receive an Update on the Time Division Multiple Access (TDMA) Upgrade
9. Receive an Update on the Faria Preserve Project, City of San Ramon
10. Receive an Update on Caltrans and Paramedics Plus
11. Future Agenda Items

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12. Adjournment

This AGENDA is posted in accordance with Government Code Section 54954.2(a)

If requested, pursuant to Government Code Section 54953.2, this agenda shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Section 12132), and the federal rules and regulations adopted in implementation thereof. To make a request for disability-related modification or accommodation, please contact the EBRCSA at (925) 803-7802 at least 72 hours in advance of the meeting.

I hereby certify that the attached agenda was posted 72 hours before the noted meeting.

A handwritten signature in black ink that reads "Tom McCarthy". The signature is written in a cursive, slightly slanted style.

Tom McCarthy, Executive Director

February 22, 2019



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AGENDA ITEM NO. 3

**AGENDA STATEMENT
OPERATIONS COMMITTEE MEETING
MEETING DATE: February 22, 2019**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Tom McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Approval of Minutes of the August 31, 2018 Regular Operations Committee Meeting

RECOMMENDATIONS:

Approve the minutes of the August 31, 2018 regular Operations Committee Meeting.

SUMMARY/DISCUSSION:

The Operations Committee will consider approval of the minutes of the August 31, 2018 Operations Committee Meeting.

RECOMMENDED ACTION:

It is recommended that the Committee approve the minutes of the August 31, 2018 Operations Committee Meeting.



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OPERATIONS COMMITTEE MEETING

REGULAR MEETING

DATE: August 31, 2018

TIME: 9:30 a.m.

PLACE: Alameda County Office of Homeland Security and Emergency Services,
Room 1013
4985 Broder Blvd., Dublin, CA 94568

MINUTES

1. Call to Order/Roll Call: 9:30 am

G. Ahern, Sheriff, Alameda County Sheriff's Office
C. Nice, Assistant Sheriff, Alameda County Sheriff's Office
N. Luby, Deputy Chief, Oakland Fire Department
P. Meyer, Fire Chief, San Ramon Valley Fire Authority
C. Simmons, Assistant Sheriff, Contra Costa County Sheriff's Office

Staff:

T. McCarthy, Executive Director
C. Soto, Administrative Assistant

Public:

G. Poole, Motorola

2. **Public Comments:** None.

3. **Approval of Minutes of the April 27, 2018, Operations Committee Meeting**

On motion of Bm. Nice, seconded by Bm. Simmons and by unanimous vote, the Operations Committee approved the minutes of the April 27, 2018 Operations Committee meeting.

4. Review Draft Policy and Procedure for Records Management/Retention/Destruction

Director McCarthy presented the Staff Report and advised that this item would create a Records Retention and Destruction Policy for the East Bay Regional Communications System Authority (Authority). With the recent scanning and imaging of the Authority's documents, the Policy would allow for destruction of a large portion of paper documents that could now be viewed electronically. The Policy included destruction dates and conditions in accordance with State regulations.

On motion of Bm. Nice, seconded by Bm. Meyer and by unanimous vote, the Operations Committee agreed to recommend for adoption to the Board of Directors, a Records Retention and Destruction Policy for East Bay Regional Communications System Authority (EBRCSA).

5. Review Lease with East Bay Municipal District for Seneca Site in Oakland

Director McCarthy presented the Staff Report advised that this was a lease with East Bay Municipal Utility District (EBMUD) for the Seneca Site in Oakland. It was for \$15,000 per year, with an increase of 3% per year, with a term starting January 2018 and ending December 31, 2023.

On motion of Bm. Nice, seconded by Bm. Luby and by unanimous vote, the Operations Committee agreed to recommend for adoption to the Board of Directors, entering into a non-revocable lease agreement with EBMUD for East Bay Regional Communications System Authority equipment located at the Seneca Reservoir, Seneca St., Oakland.

6. Review Aviat Care Services & Support Agreement

Director McCarthy presented the Staff Report and advised that this agreement would provide for Aviat technicians to come out to work on the System within four hours of a call for service, 24-hour monitoring, and a yearly inventory of System equipment.

Our current Budget for FY 2018/2019 has a line item of \$115,000 for the Aviat 7X24 Technical Support/Repair Service. This new contract from October 2018 through September 2021 will be \$98,221 annually for the 7X24 Support/Repair Services which provides technical assistance when needed via telephone and parts replacement. The Corrective Maintenance, Preventative Maintenance, and 7X24X365 Monitoring is \$165,662 annually, and \$496,986 for the three year contract for these services. The increase to the FY 2018/2019 budget for Microwave Maintenance will be \$148,883. The future line item cost for Microwave Maintenance, Monitoring, and Preventative Maintenance will be \$263,883 per year for the three years of the contract through September 30, 2021.

The Committee agreed to recommend amending the agreement to include a penalty if Aviat did not meet the reporting timeframe terms of the contractual agreement.

On motion of Bm. Nice, seconded by Bm. Simmons and by unanimous vote, the Operations Committee agreed to forward to the Board of Directors for approval, that East Bay Regional Communications System Authority enter into an agreement with Aviat Care for Services & Support.

7. Receive an Update concerning the Multi-Year Plan of System Equipment Replacement and Upgrade

Director McCarthy advised that he had located Dr. Ballard who written the original AECOM CTA analysis of the System, and would ask if he could write the next phase of replacements for the System. He had also contacted CSI for the same replacement information, and was looking for a third vendor for an informal bid process for a multi-year equipment replacement plan.

8. Receive an Update on the Time Division Multiple Access (TDMA) Upgrade

Director McCarthy advised that the installation of the TDMA hardware was almost complete. They were ahead of schedule. The hardware installation should be completed by next week.

9. Discuss Faria Preserve Project, City of San Ramon

Director McCarthy advised that there was a new development project, Faria Preserve, in San Ramon which might need a tower to provide complete radio coverage. The City charter provided that any development within the City required the developer cover the cost to keep the radio communication level at 95%. Motorola had provided a quote regarding using the Rocky Ridge as a radio site, of approximately. \$950,000. The City Manager would take that cost to the developer, to cover that cost. There were also ongoing costs to consider and he did not believe they could make the developer pay for those costs.

10. Adjournment: With no further business coming before the Operations Committee, the meeting was adjourned at 10:01 a.m.



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AGENDA ITEM NO. 4

**AGENDA STATEMENT
OPERATIONS COMMITTEE MEETING
MEETING DATE: February 22, 2019**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Tom McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Approval of 2019 Meeting Schedule

RECOMMENDATIONS:

Approve the 2019 Meeting Schedule.

SUMMARY/DISCUSSION:

The Board of Directors will review the 2019 meeting schedule for the Board of Directors, Finance Committee, Operations Committee, and Technical Advisory Committee Meetings.

RECOMMENDED ACTION:

Recommend that the Board of Directors approve the 2019 Meeting Schedule.



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2019 EBRCSA Board and Committee Meeting Schedule

Board of Directors

March 1	10:00-12:00	Assembly Room, Alameda County OES
May 10	10:00-12:00	Assembly Room, Alameda County OES
September 27	10:00-12:00	Assembly Room, Alameda County OES
December 6	10:00-12:00	Assembly Room, Alameda County OES

Committees:

February 22		
Operations Committee	9:30-10:30	Room 1013
Finance Committee	11:00-12:00	Room 1013
April 5		
Operations Committee	9:30-10:30	Room 1013
Finance Committee	11:00-12:00	Room 1013
September 13		
Operations Committee	9:30-10:30	Room 1013
Finance Committee	11:00-12:00	Room 1013
November 8		
Operations Committee	9:30-10:30	Room 1013
Finance Committee	11:00-12:00	Room 1013

TAC Meetings: First Thursday of the Month 9:30-11:30 in Room 1013 (if available) or 40% side

January 3

February 7

March 7

April 4

May 2

June 6

July 11

August 1

September 5

October 3

November 7

December 5

Note: July meeting changed to July 11, 2019 due to Holiday

Revised: 1/16/2019



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AGENDA ITEM NO. 5

**AGENDA STATEMENT
OPERATIONS COMMITTEE MEETING
MEETING DATE: February 22, 2019**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Tom McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Annual Election of a Board Chair and Vice Chair as Required by the JPA Agreement and Bylaws

RECOMMENDATIONS:

Recommend to the Board of Directors the Annual Election a Board Chair and Vice Chair, as required by the JPA Agreement and Bylaws, be held at the March 1, 2019 Board of Directors meeting.

SUMMARY/DISCUSSION:

The JPA Agreement and Bylaws for the Authority state that the Board Presiding officers shall be a Chair and Vice-Chair, elected annually from among its membership, to preside at meetings. In the absence of the Chair, the Board shall be presided over by the Vice-Chair. The positions of Chair and Vice-Chair will be filled by a representative from each County. If the Chair is from Alameda County, the Vice-Chair will be from Contra Costa County. If the Chair is from Contra Costa County, the Vice-Chair will be from Alameda County.

The Board of Directors will receive nominations from sitting members of the Board to fill the positions of Chair and Vice-Chair. The Board will vote on the nominations for Chair and Vice-Chair following Roberts's Rules of Order. The newly elected Chair and Vice Chair will assume their positions at the conclusion of the meeting, and will continue in the positions for one year.

RECOMMENDED ACTION:

It is recommended that the Committee recommend to the Board of Directors to hold the election of Board Chair and Vice Chair as required by the JPA Agreement and Bylaws, at the March 1, 2019 Board of Directors meeting.



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AGENDA ITEM 6

**AGENDA STATEMENT
OPERATIONS COMMITTEE MEETING
MEETING DATE: February 22, 2019**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Thomas G. McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Amendment to Agreement with California Generator for Scheduled Three-Year Preventative Maintenance, Coolant System Services, and Budget Change.

RECOMMENDATIONS:

Review, and if Committee agrees, make a recommendation to the Board of Directors to amend the Agreement with California Generator to perform three-year maintenance on seven generators. The change will also require a change to the annual budget to increase the line item for California Generator by \$16,845.00.

SUMMARY/DISCUSSION:

California Generator provides monitoring and maintenance to the seven generators which are used to provide emergency power to EBRCSA Sites. The generators are inspected monthly under the agreement with EBRCSA and status reports are provided. California Generator in October 2018 recommended that the generators have the three-year service performed. The inspections on the generators have all been listed as unsatisfactory because they need the three-year preventative maintenance.

The Maintenance consists of the following:

- Drain engine coolant

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- Replace all coolant hoses
- Replace block heater hoses with new silicon hoses and clamps
- Replace all engine belts and adjust to proper specification. (Fan, alternator, accessory, etc.)
- Refill engine with new coolant

Engine Running:

- Check engine for leaks

After Stopping

- Check for leaks
- Re-check belt tension
- Check block heater operation

Engine Start Batteries – Every three Years (Optional Extra Charges)

- Replace five batteries – two due in 02/2020
- Check battery charger operation

Install block heater isolation valves, if needed (Optional Extra Charges)

- Install isolation valves

The three-year preventative maintenance will cost \$16,845.00.

FINANCIAL IMPACT:

The FY 2018/2019 budget for California Generator was reduced to \$40,000 from the FY2017/2018 amount of \$55,000.00. The budgeted amount was reduced to be in line with what was spent in FY 2017/2018. EBRC SA has sufficient funds available in the maintenance budget and will not require an increase of user fees. If approved, the FY 2018/2019 Budget which will be presented to the Board of Directors, will be amended to reflect this in the budget change.

RECOMMENDED ACTION:

It is requested that the Committee recommend to the Board of Directors the amendment to the agreement with California Generator for the three-year preventative maintenance. The maintenance will cost \$16,845.00 and will be the services listed above and the replacement of five batteries.

Attachments: “A” – Quote for services

“B” – FY 2018/2019 Approved Budget



October 17, 2018

EBRCSA

4985 Broder Boulevard
Dublin, CA 94568

Attn.: Tom McCarthy **Cell:** (510) 225-5930 **Email:** tmccarthy@acgov.org

Subject: Generators – PM3 Services (Coolant System Services).

I am pleased to submit the following proposal for your consideration and approval.

California Generator Service Corp. shall be in agreement to perform services & checks. The service checks shall be performed on the following model(s):

EQUIPMENT LIST

UNIT(S)	#1	#2	#3	#4	#5	#6	#7
Make	Kohler	Kohler	Generac	Kohler	Generac	Kohler	Kohler
Model	40REOZJ	60REOZ	SD0040	40REOZJC	SD0040	40REOZJC	60REOZJD
S/N	SEM322K36	3019333	2109981	SGM322K3M	2112154	SGM322K3N	SGM322K33

OUTLINE OF CHARGES

Location	Alameda County PW Annex	Lawrence Hall of Science	Patterson Pass	Seneca Reservoir	Skyline Reservoir	Alta Mesa Reservoir	Los Vaqueros Comm. Fac.
PM3 Service	\$ 2,150.00	\$ 2,225.00	\$ 2,150.00	\$ 2,150.00	\$ 2,150.00	\$ 2,150.00	\$ 2,225.00
Battery	\$ 275.00	\$ 275.00	\$ 275.00	\$ 275.00	Due 2/2020	\$ 275.00	Due 2/2020
Cost	\$ 2,425.00	\$ 2,500.00	\$ 2,425.00	\$ 2,425.00	\$ 2,150.00	\$ 2,425.00	\$ 2,225.00

Estimated Tax \$ 270.00

Total Charges \$ 16845.00

Pricing includes all necessary labor, parts, materials and tax to complete the proposed work.

All work performed during normal working hours, unless stated. **(Mon - Fri 7:00AM-3:30PM)**

If you have any questions please contact me at **(510) 760-3591**, blopes@cageneratorservice.com

Regards

Customer Signature _____

Bill Lopes

P.O. _____ Date _____



PM3 SERVICE- Every Three Years (to include):

Before Starting Engine:

- Drain engine coolant
- Replace all coolant hoses
- Replace block heater hoses with new silicon hoses and clamps
- Replace all engine belts and adjust to proper specification. (Fan, alternator, accessory, etc.)
- Refill engine with new coolant

Engine Running:

- Check engine for leaks

After Stopping

- Check for leaks
- Re-check belt tension
- Check block heater operation

Engine Start Batteries – Every three Years (Optional Extra Charges)

- Replace batteries
- Check battery charger operation

Install block heater isolation valves, if needed (Optional Extra Charges)

- Install isolation valves

Reporting:

- Provide service report for each visit and advise customer of potential problems which will require further attention



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BUDGET
FISCAL YEAR 2018-19

Revenues

Operating payments	5,900,000
Service payments	1,300,000
Interest	50,000
Total revenues	7,250,000

Expenses

Administration	280,000
Audit fees	20,000
Insurance	30,000
Lease	50,000
Legal	20,000
Licenses and permits	30,000
Membership fees	10,000
Maintenance	3,310,000
Security	11,000
Utilities	150,000
Website hosting	4,000
Total operating expenses	3,915,000
Capital	1,915,000
Debt Service	650,000
Total expenses	6,480,000
Net Income	770,000

**EAST BAY REGIONAL COMMUNICATIONS SYSTEM
EXPENDITURE DETAIL
FISCAL YEAR 2018-2019**

OPERATING EXPENSES	FY17-18 Budget	FY17-18 Projected	FY18-19 Budget	Change FY18 vs FY19
Administration				
Executive director	225,000	223,000	225,000	(2,000)
Administrative assistant	40,000	8,000	40,000	(32,000)
Travel	4,000	-	5,000	(5,000)
Miscellaneous	10,000	3,000	10,000	(7,000)
Audit fees	20,000	18,000	20,000	(2,000)
Insurance	30,000	20,000	30,000	(10,000)
Legal	20,000	5,000	20,000	(15,000)
Lease	5,000	90,000	50,000	40,000
Licenses and permits	30,000	5,000	30,000	(25,000)
Membership fees	10,000	9,000	10,000	(1,000)
Landscaping	10,000	-	-	-
Maintenance				
Service agreement	931,000	931,000	931,000	-
Software maintenance (SUA II)	832,000	832,000	939,000	(107,000)
Network administration	250,000	250,000	250,000	-
HVAC maintenance	15,000	15,000	15,000	-
Generator maintenance	55,000	40,000	40,000	-
ALCO general maintenance	600,000	600,000	600,000	-
COCO general maintenance	220,000	210,000	220,000	(10,000)
CSI telecommunications	-	-	200,000	(200,000)
Microwave maintenance	110,000	113,000	115,000	(2,000)
Security	10,000	11,000	11,000	-
Utilities	140,000	140,000	150,000	(10,000)
Website hosting	4,000	4,000	4,000	-
Total expenses	<u>3,571,000</u>	<u>3,527,000</u>	<u>3,915,000</u>	<u>(388,000)</u>
CAPITAL EXPENDITURES				
Inter Sub System Interface	360,000	360,000	-	360,000
ALCO East 2-Channel Upgrade	360,000	360,000	-	360,000
TDMA Upgrade	-	-	1,665,000	(1,665,000)
DC Power Upgrade	-	-	250,000	(250,000)
Total expenditures	<u>720,000</u>	<u>720,000</u>	<u>1,915,000</u>	<u>(1,195,000)</u>
DEBT SERVICE				
Principal	437,000	437,000	454,000	(17,000)
Interest	213,000	213,000	196,000	17,000
Total expenses	<u>650,000</u>	<u>650,000</u>	<u>650,000</u>	<u>-</u>

1. Lease Expenses decreased because the Authority only needs to pay for one year
2. SUA II Expense increased because of additional coverage
3. CSI Communications Expense is a new contract approved by the Board of Directors
4. TDMA Upgrade Expense is the annual payment for the Change Order approved by the Board of Directors
5. DC Power Upgrade Expense is an annual amount to replace the batteries in various locations

**EAST BAY REGIONAL COMMUNICATIONS SYSTEM
PROJECTED CASH RESERVE BALANCES
FISCAL YEAR 2018-2019**

	FY17-18 Budget	FY17-18 Projected	FY18-19 Budget
Operating Reserve			
Beginning Balance	1,674,500	1,674,500	1,763,500
Operating Payments	5,000,000	5,300,000	5,900,000
Initial Payments	-	180,000	-
Interest	20,000	30,000	50,000
Operating Expenses	(3,571,000)	(3,527,000)	(3,915,000)
Transfer to Capital Reserve	(1,338,000)	(1,894,000)	(1,841,000)
Ending Balance	1,785,500	1,763,500	1,957,500
Debt Service Reserve			
Beginning Balance	1,000,000	1,000,000	1,000,000
Service Payments	1,200,000	1,600,000	1,300,000
Debt Service	(650,000)	(650,000)	(650,000)
Transfer to Capital Reserve	(550,000)	(950,000)	(650,000)
Ending Balance	1,000,000	1,000,000	1,000,000
Capital Reserve			
Beginning Balance	5,155,925	5,155,925	7,909,925
Grants	630,000	630,000	-
Transfer In	1,888,000	2,844,000	2,491,000
Capital	(720,000)	(720,000)	(1,915,000)
Ending Balance	6,953,925	7,909,925	8,485,925
Total Reserve Balance	9,739,425	10,673,425	11,443,425

1. Operating Reserve Balance is equal to 50% of the next fiscal years Operating Budget
2. Debt Reserve Balance is set to equal \$1,000,000 every fiscal year
3. Capital Reserve Balance is the projected remaining cash after the Operating and Debt Reserve requirements have been met

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY

10 YEAR CASH FLOW PROJECTION

	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
	Projected	Budget	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Operating Reserve											
Balance - beginning	1,674,500	1,763,500	1,957,500	2,016,225	2,076,712	2,139,013	2,203,183	2,269,279	2,337,357	2,407,478	2,479,702
Operating payments	5,300,000	5,900,000	6,377,400	6,390,360	6,403,346	6,416,358	6,429,396	6,442,460	6,455,550	6,468,666	6,481,809
Initial payments	180,000	-	7,200	7,200	7,214	7,229	7,243	7,258	7,272	7,287	7,301
Interest	30,000	50,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Administration	(234,000)	(280,000)	(288,400)	(297,052)	(305,964)	(315,142)	(324,597)	(334,335)	(344,365)	(354,696)	(365,336)
Audit fees	(18,000)	(20,000)	(20,600)	(21,218)	(21,855)	(22,510)	(23,185)	(23,881)	(24,597)	(25,335)	(26,095)
Insurance	(20,000)	(30,000)	(30,900)	(31,827)	(32,782)	(33,765)	(34,778)	(35,822)	(36,896)	(38,003)	(39,143)
Legal	(5,000)	(20,000)	(20,600)	(21,218)	(21,855)	(22,510)	(23,185)	(23,881)	(24,597)	(25,335)	(26,095)
Lease	(90,000)	(50,000)	(51,500)	(53,045)	(54,636)	(56,275)	(57,964)	(59,703)	(61,494)	(63,339)	(65,239)
Licenses and permits	(5,000)	(30,000)	(30,900)	(31,827)	(32,782)	(33,765)	(34,778)	(35,822)	(36,896)	(38,003)	(39,143)
Membership fees	(10,000)	(10,000)	(10,300)	(10,609)	(10,927)	(11,255)	(11,593)	(11,941)	(12,299)	(12,668)	(13,048)
Maintenance											
Customer svc. agmt.	(931,000)	(931,000)	(958,930)	(987,698)	(1,017,329)	(1,047,849)	(1,079,284)	(1,111,663)	(1,145,013)	(1,179,363)	(1,214,744)
SUA II	(832,000)	(939,000)	(967,170)	(996,185)	(1,026,071)	(1,056,853)	(1,088,558)	(1,121,215)	(1,154,852)	(1,189,497)	(1,225,182)
System management	(250,000)	(250,000)	(257,500)	(265,225)	(273,182)	(281,377)	(289,819)	(298,513)	(307,468)	(316,693)	(326,193)
HVAC	(15,000)	(15,000)	(15,450)	(15,914)	(16,391)	(16,883)	(17,389)	(17,911)	(18,448)	(19,002)	(19,572)
Generators	(40,000)	(40,000)	(41,200)	(42,436)	(43,709)	(45,020)	(46,371)	(47,762)	(49,195)	(50,671)	(52,191)
ALCO maintenance	(600,000)	(600,000)	(618,000)	(636,540)	(655,636)	(675,305)	(695,564)	(716,431)	(737,924)	(760,069)	(782,864)
COCO maintenance	(210,000)	(220,000)	(226,600)	(233,398)	(240,400)	(247,612)	(255,040)	(262,692)	(270,572)	(278,682)	(287,050)
CSI telecommunications	-	(200,000)	(206,000)	(212,180)	(218,545)	(225,102)	(231,855)	(238,810)	(245,975)	(253,354)	(260,955)
Microwave maintenance	(113,000)	(115,000)	(118,450)	(122,004)	(125,664)	(129,434)	(133,317)	(137,316)	(141,435)	(145,679)	(150,049)
Security	(10,000)	(11,000)	(11,330)	(11,670)	(12,020)	(12,381)	(12,752)	(13,135)	(13,529)	(13,934)	(14,353)
Utilities	(140,000)	(150,000)	(154,500)	(159,135)	(163,909)	(168,826)	(173,891)	(179,108)	(184,481)	(190,016)	(195,716)
Web site hosting	(4,000)	(4,000)	(4,120)	(4,244)	(4,371)	(4,502)	(4,637)	(4,776)	(4,919)	(5,067)	(5,219)
Transfer to Capital Reserve	(1,894,000)	(1,841,000)	(2,313,425)	(2,203,650)	(2,090,233)	(1,973,049)	(1,851,985)	(1,726,925)	(1,597,745)	(1,464,324)	(1,326,532)
Balance - ending	1,763,500	1,957,500	2,016,225	2,076,712	2,139,013	2,203,183	2,269,279	2,337,357	2,407,478	2,479,702	2,554,093
Debt Service Reserve											
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Service payment	1,600,000	1,300,000	1,308,096	1,310,982	1,313,873	1,316,771	1,319,674	1,322,583	1,325,497	1,328,418	1,331,344
Principal	(437,000)	(454,000)	(473,000)	(492,000)	(512,000)	(532,000)	(553,000)	(576,000)	(600,000)	(623,000)	-
Bond interest	(213,000)	(196,000)	(177,000)	(158,000)	(138,000)	(118,000)	(97,000)	(74,000)	(50,000)	(27,000)	-
Transfer to Capital Reserve	(950,000)	(650,000)	(658,096)	(660,982)	(663,873)	(666,771)	(669,673)	(672,583)	(675,497)	(678,418)	(2,331,345)
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-
Capital Reserve											
Balance - beginning	5,155,925	7,909,925	8,485,925	9,542,446	10,492,078	11,331,184	12,056,004	14,327,662	16,477,170	18,500,412	20,393,154
Grants	630,000	-	-	-	-	-	-	-	-	-	-
Transfer In	2,844,000	2,491,000	2,971,521	2,864,632	2,754,106	2,639,820	2,521,658	2,399,508	2,273,242	2,142,742	3,657,877
Capital	(720,000)	(1,915,000)	(1,915,000)	(1,915,000)	(1,915,000)	(1,915,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)
Balance - ending	7,909,925	8,485,925	9,542,446	10,492,078	11,331,184	12,056,004	14,327,662	16,477,170	18,500,412	20,393,154	23,801,031
TOTAL RESERVE BALANCE	10,673,425	11,443,425	12,558,671	13,568,789	14,470,197	15,259,187	17,596,942	19,814,527	21,907,890	23,872,856	26,355,124



**East Bay Regional
Communications
System Authority**



Participating agencies include Alameda and Contra Costa Counties and the following cities and special districts: Alameda, Albany, Antioch, Berkeley, Brentwood, Clayton, Concord, Danville, Dublin, El Cerrito, Emeryville, Fremont, Hayward, Hercules, Lafayette, Livermore, Martinez, Moraga, Newark, Oakley, Pinole, Pittsburg, Pleasant Hill, Pleasanton, Richmond, San Leandro, San Pablo, San Ramon, Union City, Walnut Creek, East Bay Regional Park District, Kensington Police Community Services District, Livermore Amador Valley Transit Authority, Moraga-Orinda Fire District, Rodeo-Hercules Fire District, San Ramon Valley Fire District, California Department of Transportation, Ohlone Community College District, Contra Costa Community College District, Dublin-San Ramon Services District and University of California, Berkeley

AGENDA ITEM NO. 7

**AGENDA STATEMENT
OPERATIONS COMMITTEE
MEETING DATE: February 22, 2019**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Thomas McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Walton Lane Simulcast Site

RECOMMENDATIONS:

Provide direction regarding adding a Simulcast Site to Walton Lane in Antioch.

SUMMARY/DISCUSSION:

In 2017, the Antioch Police Department contacted the Executive Director and expressed difficulty transmitting and receiving radio transmission on the East Bay Regional Communications System Authority (EBRCSA) radios. Antioch Police, Contra Costa Fire, East Bay Regional Parks Police Department (EBRPD) and American Medical Response (AMR) had identified the area as James Donlon Blvd. in the City of Antioch. On October 13, 2017, the Operations Committee was presented with Agenda Item 8, see attachment, at their Operations Committee meeting which outlined the recommendation to add a Simulcast Site at Walton Lane which would provide coverage in the area. The Staff Report was presented to the Operations Committee and the Operations Committee did not recommend that it be sent to the Finance Committee or Board of Directors for further action.

Since October 13, 2017, when the Operations Committee met on the issue the Executive Director worked with the Contra Costa County Radio Shop and the agencies involved concerning coverage in the area of James Donlon Blvd., Antioch. Since that time the East Bay Regional Parks

Department (EBRPD) is now using EBRCSA and confirmed that they cannot communicate in that area.

EBRCSA was approached by Deputy Fire Chief Lewis T. Broschard II, Contra Costa County Fire Protection to assist in applying for a 2019 State Homeland Security Grant Program (SHSGP) which could fund or partially fund the Walton Lane Simulcast Site. The Executive Director assisted the Contra Costa County Fire Protection who submitted the grant. The Executive Director presented the SHSGP Grant Proposal to the Contra Costa County G10, Grant Review Committee on December 11, 2018. On January 14, 2019, the Executive Director was advised that the proposal was not approved.

The Antioch Police no longer use the Walton Lane site. The Antioch Police Department, Contra Costa County Fire Protection, AMR, and EBRPD are utilizing EBRCSA for communication. Due to lack of radio coverage in the area this means that there is no communication with Dispatch or other units when in the James Donlon area. We have performed a preliminary investigation into the reason for this and the antenna at Kregor and Shady Brook are on hill sides which create a shadow over the development in this area. When someone attempts to transmit while in this area, the signal from the radio cannot reach the EBRCSA towers in the area. The Antioch system, which has an antenna at Walton Lane, points directly into the area and that is why the Antioch system worked so well in this area.

The Executive Director met with Antioch Police Chief Tammany Brooks on November 19, 2018. He spoke with the Chief and asked him who could tell him more about the Shelters at Walton Lane. He also confirmed that he wanted to address the issue of coverage at James Donlon. The Chief said he did want to have the issue corrected and he referred me to the Director of Information Services and the Public Works Director. On December 4, 2018, the Executive Director met with two representatives from the City of Antioch, Alan Barton Director of Information Services, and Jon Blank, Public Works Director/City Engineer. They discussed who might be still using the Walton Lane Site for communications and Mr. Blank advised that Public Works uses cellular telephones for communications rather than radios at this time. Mr. Barton was unaware of anyone using the site.

The Executive Director of EBRCSA, Technician from Contra Costa County Department of Information Technology (DOIT) and Project Manager from Motorola have visited the Walton Lane site and recommend using the Walton Lane site owned by the City of Antioch and install a new shelter and Simulcast Site. The site has optimal coverage, has a tower in place, and PG&E. If we were to build a new site the cost would be considerable higher due to acquisition of land, installation of a tower, and installing PG&E.

The reason that the Operations Committee did not approve the Walton Lane proposal was that they wanted further investigation into what options are available at the Walton Lane site. EBRCSA entered into a contract with CSI Telecommunications, an independent engineering firm, in July 2018. CSI will assist in the analysis of the Walton Lane Project and provide an independent analysis of the project and options. The analysis will include the location for the shelter, tower analysis, and coverage maps. It will also review the Motorola recommendations, see attached.

Motorola has updated the cost of the Simulcast Site to \$853,515. In addition, CSI will assist with the application of any necessary FCC licenses and permits.

The Committee is being asked to provide direction on this project as we do not have all the costs identified at this time. In addition, there will need to be additional meetings with the City of Antioch, the City of Antioch Water Department, and other tenants who have shelters at Walton Lane.

The Executive Director is seeking approval to proceed with further investigation into the actual costs and necessary actions to ensure the scope of the project is known, and if there are any options that are unknown at this time. The Executive Director wishes to have approval of the Committees and the Board of Directors so that there is a clear understanding of the parameters which the Committee's and Board of Directors approve so discussions with the City of Antioch can move forward. The Executive Director is seeking approval from the Board of Directors and a plan of action concerning this project. The Executive Director will then return to the Committees on April 5, 2019, and the Board of Directors on May 10, 2019, with a final plan and cost of the project for approval.

RECOMMENDED ACTION:

It is requested that the Committee review the information provided, and provide a recommendation to the Board of Directors concerning further investigation and discussion into the solution for improving radio communication in Antioch, specifically the area of James Donlon Blvd. Further review is necessary before the Executive Director can determine the necessary amount of funding which will be required for this project.

Attachments:

“A” – Motorola Walton Lane Simulcast Site Add-On January 30, 2019

“B” – Operations Agenda Statement October 13, 2017

“C” – Motorola Walton Lane Simulcast Site March 16, 2017

“D” - Minutes Operations Committee October 13, 2017

“E” – State Homeland Security Grant Program Application

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY

WALTON LANE SIMULCAST SITE ADD-ON

JANUARY 30, 2019

The design, technical, pricing, and other information ("Information") furnished with this submission is proprietary and/or trade secret information of Motorola Solutions, Inc. ("Motorola Solutions") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the Information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the Information without the express written permission of Motorola Solutions.

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Motorola Solutions
10680 Trenea Street, Suite #200
San Diego, CA. 92131
USA

January 30, 2019

Mr. Tom McCarthy
East Bay Regional Communications System Authority
4985 Broder Blvd.
Dublin, CA 94568

Subject: Walton Lane Simulcast Site Add-On

Dear Tom:

Motorola Solutions Inc. ("Motorola Solutions") is pleased to provide the East Bay Regional Communications System Authority ("EBRCSA") the following Proposal to add a new 10 channel TDMA simulcast site to the Contra Costa East Cell at Walton Lane.

Once again, the Motorola Solutions project team has taken great care to propose a solution that will meet your needs and provide unsurpassed value. To best meet EBRCSA's functional and operational specifications, Motorola Solutions includes a combination of hardware, software, and services specified in Section 1 of the Proposal.

As you know, under Section 3.4 of the Communications System Agreement (CSA), dated July, 7, 2009, and extended to May 10, 2017, between EBRCSA and Motorola Solutions (the "CSA"), EBRCSA may purchase additional goods and services from the CSA. Motorola Solutions' proposal is based on the assumption that EBRCSA will use this right under Section 3.4 of the CSA for the proposed transaction. Therefore, as in the past, EBRCSA may accept the proposal by executing a Change Order to the current CSA that we have prepared for you. This proposal shall remain valid until May 30, 2019.

Motorola Solutions will be pleased to address any questions you may have regarding this proposal. Please direct any questions to your Motorola Solutions Senior Account Manager, Gordon Poole at (408) 306-5622. Motorola Solutions appreciates your continued confidence in our company, products, and services.

We look forward to continuing our relationship and implementing this project with EBRCSA.

Thank you.

Sincerely,

Motorola Solutions, Inc.



Michael De Benedetti
Area Sales Manager

SECTION 1

SYSTEM OVERVIEW

1.1 SIMULCAST REMOTE SITE ADD-ON

In response to the East Bay Regional Communications System (EBRCS) request for improving coverage in the James Donlon corridor of Antioch in the Contra Costa East cell, Motorola Solutions has prepared this proposal. This proposal includes the necessary hardware, software, and services to implement a ten (10) channel 700MHz TDMA with Dynamic Dual Mode (DDM) simulcast remote site in the existing EBRCS 700MHz trunked system. This site will operate as an additional simulcast remote site in the Contra Costa East cell with existing three (3) sites including Kregor Peak (prime site), Shadybrook, and Los Vaqueros.

Motorola Solutions has refined its RF site design through its latest ASTRO releases and is pleased to offer our Expandable Site Sub-System (ESS) as our preferred Simulcast system platform. The ESS offers many features not found in other site solutions including:

- Integrated networking components:
 - Ethernet router(s).
- Shared power supplies among radio components:
 - -48V DC power.

The ESS (pictured on right) can support a total of six base radios which can support up to six (6) P25 Phase 1 (FDMA) channels, twelve (12) P25 Phase 2 (TDMA) talk-paths, or any combination in-between. Conventional channels can be supported within the ESS as well. This proposal includes support for the following channels:

The Walton Lane Simulcast remote site has been designed to operate in the 700MHz band, and therefore Motorola Solutions has included a TX combiner and an integrated multicoupler. In addition, Motorola Solutions has included the necessary networking equipment and software licenses for integrating this site into the ASTRO 25 network.



SECTION 2

SYSTEM DESCRIPTION

2.1 EBRCSA SYSTEM

The East Bay Regional Communications System Authority (EBRCSA) trunked infrastructure design consists of simulcast subsystems and ASTRO 25 standalone repeater sites. The simulcast subsystems also known as "cells" provide coverage and capacity to the various EBRCSA agencies based on the operational area and number of users in each cell.

The EBRCSA Simulcast Site and Channel count for each cell.

- EBRCSA P25 Simulcast Cells.
 - Four Site, 10 Channel 800 MHz Contra Costa West Cell.
 - Four Site, 10 Channel 700 MHz Alameda East Cell.
 - Four Site, 18 Channel 700 MHz Alameda Northwest Cell.
 - Seven Site, 12 Channel 700 MHz Alameda Southwest Cell.
 - Eight Site, 12 Channel 700 MHz Contra Costa Central Cell.
 - Three Site, 10 Channel 700 MHz Contra Costa East Cell.
 - One site, 6 Channel Stand-Alone 800 MHz repeater site for Crane Ridge.
 - One site, 4 Channel Stand-Alone 800 MHz repeater site for Marsh Creek.



SECTION 3

SYSTEM COMPONENTS

3.1 WALTON LANE SIMULCAST REMOTE SITE

Our proposed simulcast remote site solution for EBRCS includes the following summary of equipment:

- Two (2) Motorola Solutions ESS:
 - Supporting the following channels/talk-paths:
 - Ten P25 Phase II TDMA Channels/eighteen talkpaths.
 - Nine DDM Channels to support FDMA users.
- One (1) Transmit Antenna.
- One (1) Receive Antenna.
- Receive Tower Top Amplifier (TTA).
- 250 feet of 1 5/8" Coaxial cable.
- 225 feet of 7/8" Coaxial cable.
- RF Connectors.
- Required Lightning Arrestors.
- Two (2) Motorola Solutions GGM8000 Gateways.
- Two (2) HP Ethernet switches.
- Two (2) 7ft equipment racks.
- 48VDC Power System.
- 696AH Battery Backup.
- Site Spares for the simulcast remote site.

The Walton Lane remote site is configured for ten 700MHz channels in the ESS configuration for use on the current 7.17 system.



SECTION 4

STATEMENT OF WORK

Motorola Solutions is proposing to East Bay Communications System Authority (EBRCSA) the installation and configuration of the following equipment at the specified locations as shown in Table 4-1.

Table 4-1: Major Equipment by Site

Site Name	Major Equipment
Walton Lane Cell	Add Ten Channel Remote Site to the Contra Costa East Simulcast Cell.

The document delineates the general responsibilities between Motorola Solutions and EBRCSA as agreed to by contract.

4.1 MOTOROLA SOLUTIONS RESPONSIBILITIES

Motorola Solutions' general responsibilities include the following:

- Schedule the optimization in agreement with EBRCSA.
- Perform the configuration and optimization of the Motorola Solutions supplied equipment described above.
- Coordinate the activities of all Motorola Solutions subcontractors under this contract.
- Administer safe work procedures for installation.
- Provide EBRCSA with the appropriate system interconnect specifications.

4.2 EBRCSA RESPONSIBILITIES

EBRCSA will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola Solutions. EBRCSA general responsibilities include the following:

- Provide all buildings, equipment shelters, and towers required for system installation that meet R56 standards.
- Insure communications sites meet space, grounding, power, and connectivity requirements for the installation of all equipment including 220VAC circuits required for 48VDC power system.
- Will install and configure all 48VDC equipment and be responsible for all electrical connectivity.
- Obtain all FCC and local licensing and updates for the Walton Lane site.
- Obtain frequencies for project as required.
- Will be responsible for site access, and permitting required for project implementation.
- Will provide the cold installation of all FNE equipment and antenna system provided in this proposal.
- Provide required system interconnections including backhaul connectivity to the Kregor Peak Contra Costa East Cell Prime Site.



- Will provide a dedicated delivery point, such as a warehouse, for receipt, inventory and storage of equipment prior to delivery to the site(s).
- Coordinate the activities of all EBRCSA's vendors or other contractors.

4.3 ASSUMPTIONS

Motorola Solutions has made several assumptions in preparing this proposal, which are noted below.

- ◆ All existing sites or equipment locations will have sufficient space available for the system described.
- ◆ Final system design and coverage analysis are based on FCC Licensing Information.
- ◆ All existing sites or equipment locations will have adequate electrical power and site grounding suitable to support the requirements of the system described.
- ◆ There is no more than 25' wire distance between existing power system and new equipment terminals
- ◆ There is a site R56 compliant ground connection within 33' of new equipment installation location.
- ◆ Existing tower will have adequate space and size to support the antenna network requirements of the Walton Lane Site Add-on described, and there are available entry ports for antenna cabling within 25' of the ESS rack.
- ◆ Any site/location upgrades or modifications are the responsibility of EBRCSA.
- ◆ Any tower stress analysis or tower upgrade requirements are the responsibility of EBRCSA.
- ◆ EBRCSA will be responsible for removal of equipment necessary to accommodate the new Motorola Solutions provided equipment.
- ◆ Approved FCC licensing will be provided by EBRCSA.
- ◆ Approved local, State, or Federal permits as may be required for the installation and operation of the proposed equipment, are the responsibility of EBRCSA.
- ◆ Any required system interconnections not specifically outlined here will be provided by EBRCSA, including but not limited to dedicated phone circuits or microwave links.
- ◆ EBRCSA will provide the backhaul demarcation point within 10' of the ESS rack location.
- ◆ EBRCSA will provide a dedicated delivery point for receipt, inventory, and storage of equipment prior to delivery to the site.
- ◆ Work will be completed during non-holidays Monday – Friday during normal business hours, 8:00 am – 5:00 pm.
- ◆ Training is not included in this proposal.
- ◆ There is no Frequency Planning, Fleetmapping, or Subscriber programming and installation content included in this scope.
- ◆ Coverage guarantee is not included or implied in this proposal.
- ◆ An Acceptance Test will be performed on the system upon cut over.
- ◆ Motorola Solutions is not responsible for interference caused or received by the Motorola Solutions provided equipment except for interference that is directly caused by the Motorola Solutions provided transmitter(s) to the Motorola Solutions provided receiver(s). Should the EBRCSA's system experience interference, Motorola Solutions can be contracted to investigate the source and recommend solutions to mitigate the issue.



SECTION 5

EQUIPMENT LIST

This section lists the equipment necessary for the proposed solution.

5.1 WALTON LANE SIMULCAST REMOTE SITE EQUIPMENT

QTY	NOMENCLATURE	DESCRIPTION
1	SQM01SUM0273	MASTER SITE CONFIGURATION
1	UA00159AA	ADD: P25 PHASE 2 TDMA TRKNG OP SITE
1	UA00160AA	ADD: PHASE 2 DYNAMIC TG ASGNMT SITE
9	UA00161AA	ADD: P25 PHASE 2 TDMA SW BASE RADIO
9	UA00162AA	ADD: PHASE 2 DYNAMIC CH BASE RADIO
1	UA00153AA	ADD: ASTRO 25 FDMA SITE LICENSE
1	UA00407AA	ADD: CLASSIC DATA-P25 TRNK SITE
1	CA02629AC	ADD: EXPAND 7.17 M CORE
2	CLN1856	2620-24 ETHERNET SWITCH
1	DSTRAK91009EDC	REMOTE SITE REDUNDANT MODULAR FREQU
3	DSTRAK91061	FOUR PORT DDM
50	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY
4	DDN9769	F1PNM-HC 1/4" TYPE N MALE CONNECTOR
1	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM
1	CA00855AA	ADD: 700/800 MHZ
1	X305AC	ADD: QTY (5) GTR 8000 BASE RADIOS
5	CA01193AA	ADD: IP BASED MULTISITE BASE RADIO
1	CA00862AA	ADD: SITE & CABINET RMC W/CAPABILIT
1	CA00879AA	ADD: PRIMARY 6 PORT CAVITY COMBINER
1	CA00882AA	ADD: 700 MHZ TX FILTER W/PMU
5	CA01953AA	ADD: POWER EFFICIENCY PACKAGE
1	CA01402AA	ADD: 7.0 FT OPEN RACK
1	CA02686AA	ADD: AC DC POWER DISTRIBUTION
5	CA01842AA	ADD: P25 TDMA SOFTWARE
5	CA01902AA	ADD: P25 DYNAMIC CHANNEL SOFTWARE
2	CA01706AA	ADD: ADD: GGM 8000 GATEWAY
1	CA00717AA	ADD: ASTRO SYSTEM RELEASE 7.17
2	CA00884AA	ADD: QTY (1) XHUB
1	CA02225AA	ADD: GTR ESS INTEGRATION KIT FOR EX



1	CA02225AA	ADD: GTR ESS INTEGRATION KIT FOR EX
1	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM
1	CA00855AA	ADD: 700/800 MHZ
1	X305AC	ADD: QTY (5) GTR 8000 BASE RADIOS
5	CA01193AA	ADD: IP BASED MULTISITE BASE RADIO
1	CA00877AA	ADD: CABINET RMC FOR EXPANSION RACK
1	CA00880AA	ADD: EXPANSION 6 PORT CAVITY COMBIN
1	CA01058AA	ADD: 700/800 PHASING HARNESS
2	CA00884AA	ADD: QTY (1) XHUB
5	CA01953AA	ADD: POWER EFFICIENCY PACKAGE
1	CA01402AA	ADD: 7.0 FT OPEN RACK
1	CA02686AA	ADD: AC DC POWER DISTRIBUTION
5	CA01842AA	ADD: P25 TDMA SOFTWARE
5	CA01902AA	ADD: P25 DYNAMIC CHANNEL SOFTWARE
1	CA00717AA	ADD: ASTRO SYSTEM RELEASE 7.17
1	DS43783I01MC48	MIGRATABLE CMU, 796-824MHZ, ETHERNE
1	DS43783I01T	TTA, 796-824MHZ, SINGLE / DUAL NETW
1	DS8983N0106	FILTER, 798-824 MHZ, BP, BW 6 MHZ
1	DLN6455	CONFIGURATION/SERVICE SOFTWARE
1	DSTRAK91061	FOUR PORT DDM
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01619AA	ADD: DC POWER
1	CLN1856	2620-24 ETHERNET SWITCH
1	DLN6885	FRU: XCVR 7/800 MHZ V2
1	DLN6895	FRU: PA 7/800 MHz
1	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000
1	DLN6781	FRU: POWER SUPPLY
1	DLN6677	FRU: G-SERIES XHUB
1	DLN6793B	FRU: PWR EFF POWER SUPPLY AC/48VDC
1	DLN6898	FRU: FAN MODULE
1	DLN6821	FRU: GTR ANALOG 4W E&M SIMULCST KIT
1	DLN6709	GTR/GPW OPTION CARD
1	DLN6794	FRU: PWR EFF OPTION CARD
1	DSDS7C09P36UD	DS7C09P36U-D, 764-869MHZ SINGLE 9DB
15	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL
1	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN
1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2
5	TDN9289	221213 CABLE WRAP WEATHERPROOFING
5	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL



2	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN
250	L3405	AVA7-50 CABLE: 1 5/8" AVA HELIAX PO
2	DDN9503	AL7NF-PSA 1-5/8" TYPE N FEMALE POSI
6	DSSG15806B2A	SG158-06B2A 1-5/8" SUREGROUND GROUN
2	DSL7SGRIP	L7SGRIP 1-5/8" SUPPORT HOIST GRIP
250	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL
1	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN
1	DDN1089	L4TNF-PSA TYPE N FEMALE PS FOR 1/2
6	DSSG1206B2A	SG12-06B2A 1/2IN SURE GROUND GROUND
2	DSL4SGRIP	L4SGRIP SUPPORT HOIST GRIP 1/2" LDF
9	MDN6816	STD HANGERS FOR 1/2IN CABLE & EW180
9	TDN6949	42396A-2 1-5/8" CABLE HANGER KIT 10
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VD
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VD
25	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY
2	DDN9769	F1PNM-HC 1/4" TYPE N MALE CONNECTOR
25	L1702	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY
2	DDN9682	F4PNMV2-HC 1/2" TYPE N MALE PLATED
1	DDN9743	TK-TW TORQUE WRENCH KIT FOR 7-16 DI
1	DSDS7C09P36UD	DS7C09P36U-D, 764-869MHZ SINGLE 9DB
15	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL
2	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2
2	TDN9289	221213 CABLE WRAP WEATHERPROOFING
225	DSAVA550	AVA5-50, COAXIAL CABLE, CORRUGATED
2	DSA5DFD	D-CLASS 7-16 DIN FEMALE FOR AVA5-50
5	DSSG7806B2A	SG78-06B2A GROUNDING KIT FOR 7/8 IN
2	DSL5SGRIP	L5SGRIP 7/8" SUPPORT HOIST GRIP
8	MDN6817	42396A-5 7/8" CABLE HANGER STAINLE
1	DSTSXDFMBF	RF SPD, 698-2700MHZ DC BLOCK HIGH P
1	DSGSAKITD	GROUND STRAP KIT - DIN
25	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POL
2	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2
1	DSLMHFX450ST	DC POWER SYS, 48V 450ADC, DIST MOD,
3	DSLMHF7548VZE1	RECTIFIER, 48V, 75AMP
1	DSIX4U23KKIT	INVERTER KIT, CONTROLLER, STATIC SW
1	DSWLBG696ST	BATTERY, 696AH 48VDC STRING CONSIST
1	DSBPV1948V14RC	48 VDC 19" SPLIT BUS BREAKER PANE W
2	DSSP4KHAM20B1A	BREAKER, 20 AMP
8	DSSP4KHAM10B1A	BREAKER, 10 AMP



4	DSSP4KHAM5B1A	5A CIRCUIT BREAKERS
5	DSSP4KCDPD100B1	100 AMP BREAKER FOR TYPE CDPD
2	DSSP4KCDPD70B1	BREAKER, 70 AMP
2	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A P



SECTION 6

ACCEPTANCE TEST PLAN

A mutually agreed upon Acceptance Test Plan will be developed with EBRCSA and Motorola Solutions during the Kick-Off Meeting. This will include functional testing of the proposed equipment.



SECTION 7

COVERAGE VERIFICATION

As part of the Walton Lane simulcast site add proposal, Motorola is including services to perform a coverage survey that includes the Somersville, James Donlan and Lone Tree Way areas of Antioch identified in the map below. The purpose of the coverage survey is to validate to EBRCSA and its end users that the coverage concerns in and around the James Donlan Blvd area of Antioch have been met with the addition of the Walton Lane site. The map below identifies the area in which Motorola will perform the coverage survey.

The coverage survey will use a Portable radio to simulate on hip-on Street coverage by sampling the inbound and outbound BER (Bit Error rate) information. Motorola will use VoyagerSM to record the BER values, which will take sample data every ¼ mile. This process will require that one channel will be reserved for the duration of the coverage survey. Voyager generates computer files that include the Reference Tile Levels for each sampled tile. A copy of this raw data will be provided to EBRCSA as part of the coverage survey report. Motorola will submit to EBRCSA a brief report of the coverage survey results.

7.1 INFORMATIONAL ONLY COVERAGE MAP

The following map is for informational purposes only and does not constitute any form of coverage guarantee. This map depicts the CoCoCo East Simulcast Cell with the addition of the new Walton Lane remote site.



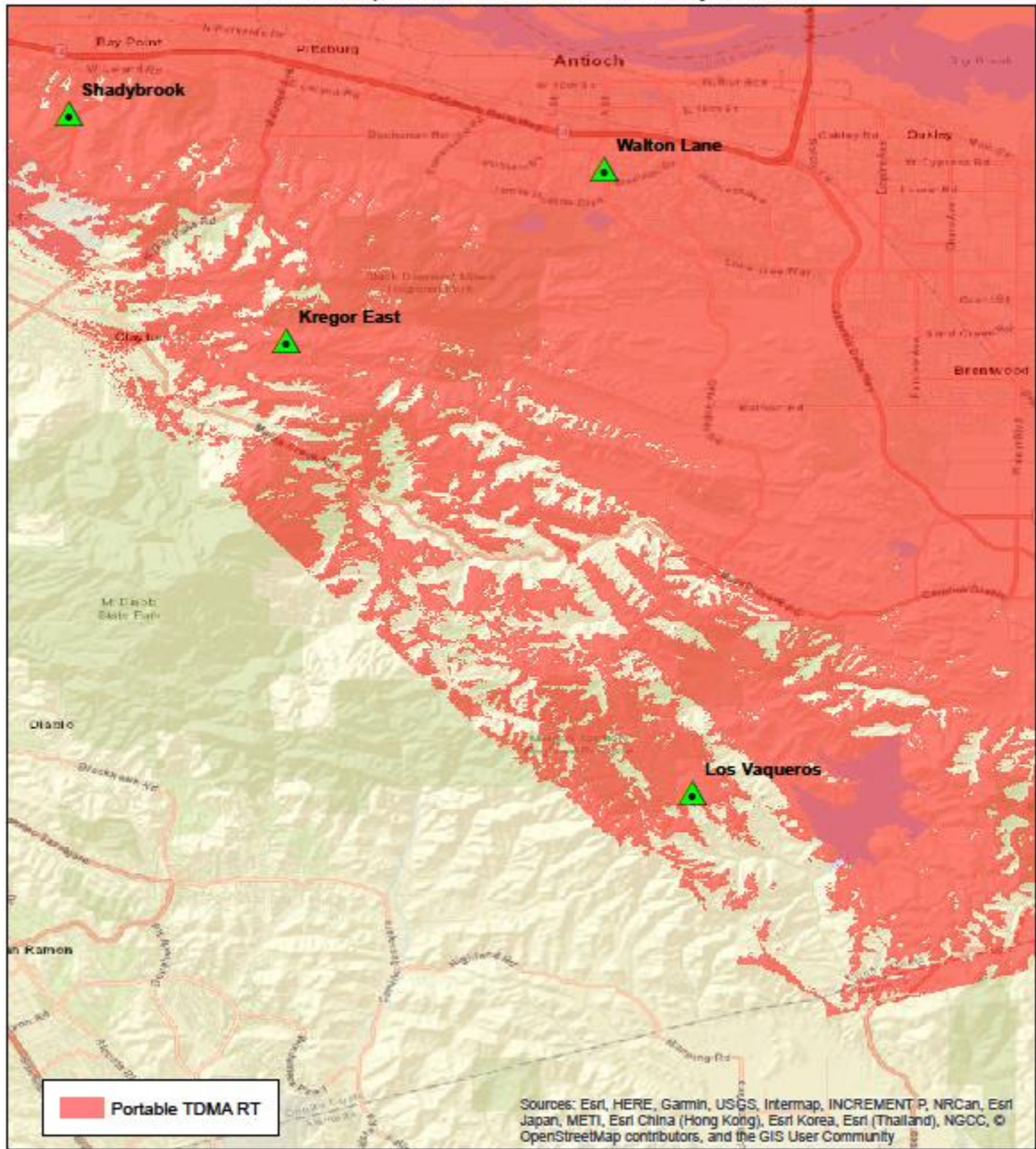


CA_EBRCS East Cell

4 Site 700 MHz ASTRO Phase 2 System

Shaded Area Represents 95% Covered Area Reliability at DAQ-3.0

This map is a coverage estimate based upon the information provided and should be used for informational purposes only. This coverage estimate in no way constitutes a coverage guarantee and Motorola is not responsible for any deviation between the estimated and actual system performance.



0 0.5 1 2 Miles

1 in = 2 miles

January 28, 2019

Portable Config: APX 7000 Portable, 12.5 kHz, 2.5W
Tx/Rx at Hip with Belt Clip using RSM
Portable Antenna: Dual Band

CA_EBRCS
East Cell TDMA Walton
TBDH48
TBDH48-ZBK15G3

Design 9

7.2 INFORMATIONAL ONLY COVERAGE SURVEY MAP

The following map is for informational purposes only and does not constitute any form of coverage guarantee.

This map has been provided to indicate the predicted improved coverage in and around the James Donlan Blvd area in Antioch.

This map illustrates the coverage survey Motorola will use to validate to EBRCSA and its end users that the coverage concerns in and around the James Donlan Blvd area of Antioch.

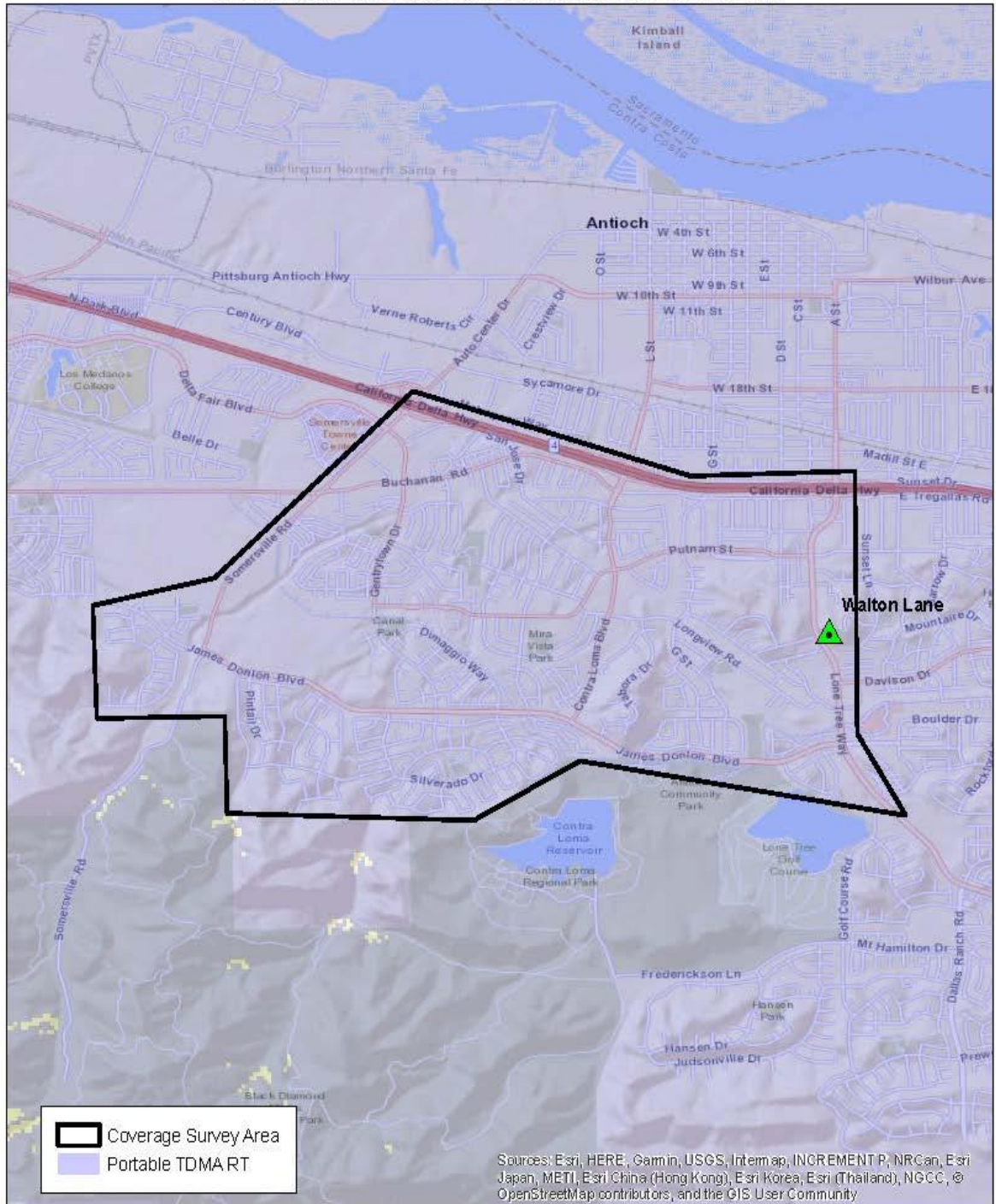




CA_EBRCS East Cell

4 Site 700 MHz ASTRO TDMA System
 Shaded Area Represents 95% Covered Area Reliability at DAQ-3.0

This map is a coverage estimate based upon the information provided and should be used for informational purposes only. This coverage estimate in no way constitutes a coverage guarantee and Motorola is not responsible for any deviation between the estimated and actual system performance.



Coverage Survey Area
 Portable TDMA RT

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

0 0.150.3 0.6 Miles

 1 in = 1 miles

Portable Config: APX 7000 Portable, 12.5 kHz, 2.5W
 Tx/Rx at Hip with Belt Clip using RSM
 Portable Antenna: Dual Band

CA_EBRCS
 East Cell TDMA Walton
 TBDH48
 TBDH48-ZBK15G3

January 29, 2019

Informational Only Coverage Survey Area
 Portable Round-Trip BER

Design 9/13

SECTION 8

WARRANTY AND MAINTENANCE

8.1 WARRANTY SERVICES EBRCSA CHANNEL EXPANSIONS

Motorola Solutions will provide warranty services per our standard warranty terms and conditions as outlined within the Contract Documentation section within this proposal. In addition to the Standard Commercial Warranty, Post Warranty Services for this Channel Expansion project will be added to the current East Bay Regional Communications System Authority (EBRCSA) Maintenance and System Upgrade Agreements..



SECTION 9

PRICING

9.1 PRICING SUMMARY

Costs for equipment and optimization services for the Walton Lane Simulcast Remote Site Add-on.

Equipment and Services	Pricing
Equipment Cost Before Discount	\$865,016
Equipment Discount	(\$138,362)
Equipment Cost After Discount	\$726,654
8.75% Sales Tax on Equipment	\$63,582
Total Equipment Cost	\$790,236
System Integration Cost	\$332,811
System Subtotal	\$1,123,046
2019 Shipping Incentive	(\$269,531)
TOTAL COST	\$853,515

9.2 PAYMENT TERMS

System Invoicing Milestones:

1. 25% of the Contract Price due upon contract execution.
2. 60% of the Contract Price due upon shipment of equipment.
3. 5% of the Contract Price due upon optimization of equipment.
4. 5% of the Contract Price upon system acceptance or start of beneficial use.
5. 5% of the Contract Price due upon Final Acceptance.

Overdue invoices will bear simple interest at the rate of ten percent (10%) per annum, unless such rate exceeds the maximum allowed by law, in which case it will be reduced to the maximum allowable rate.



SECTION 10

CONTRACTUAL DOCUMENTATION

Under Section 3.4 of the Communications System Agreement (CSA), dated July, 7, 2009, and extended May 10, 2017, between EBRCSA and Motorola Solutions (the "CSA"), EBRCSA may purchase additional goods and services from the CSA. Motorola Solutions' proposal is based on the assumption that EBRCSA will use this right under Section 3.4 of the CSA for the proposed transaction. Therefore, EBRCSA may accept the proposal by either issuing a Purchase Order that refers to the CSA and the Motorola Solutions proposal, or by executing a Change Order to the current CSA. If you prefer the latter method, Motorola Solutions will gladly prepare the Change Order document for execution.





**East Bay Regional
Communications
System Authority**



Participating agencies include Alameda and Contra Costa Counties and the following cities and special districts: Alameda, Albany, Antioch, Berkeley, Brentwood, Clayton, Concord, Danville, Dublin, El Cerrito, Emeryville, Fremont, Hayward, Hercules, Lafayette, Livermore, Martinez, Moraga, Newark, Oakley, Pinole, Pittsburg, Pleasant Hill, Pleasanton, Richmond, San Leandro, San Pablo, San Ramon, Union City, Walnut Creek, East Bay Regional Park District, Kensington Police Community Services District, Livermore Amador Valley Transit Authority, Moraga-Orinda Fire District, Rodeo-Hercules Fire District, San Ramon Valley Fire District, California Department of Transportation, Ohlone Community College District, Contra Costa Community College District, Dublin-San Ramon Services District and University of California, Berkeley

AGENDA ITEM NO. 8

**AGENDA STATEMENT
OPERATIONS COMMITTEE
MEETING DATE: October 13, 2017**

TO: Operations Committee
East Bay Regional Communications System Authority (EBRCSA)

FROM: Thomas McCarthy, Executive Director
East Bay Regional Communications System Authority

SUBJECT: Walton Lane Simulcast Site Add-On

RECOMMENDATIONS:

Provide direction regarding adding a Simulcast Site to Walton Lane in Antioch.

SUMMARY/DISCUSSION:

The Antioch Police Department has contacted the Executive Director and expressed difficulty transmitting and receiving radio transmission on the East Bay Regional Communications System Authority (EBRCSA) radios. Antioch Police and Contra Costa Fire have identified the area as James Donlon Blvd. in Antioch. The old radio system used by Antioch Police still works in the area, however, the Officers and Fire Fighters have to change channels when they are in the area and can no longer monitor radios still on the EBRCSA system and the same applies for the Officers and Firefighters on the EBRCSA channel cannot hear the Officer or Firefighter who changed channels. We have performed some preliminary investigation into the reason for this and the antenna at Kregor and Shadybrook are on hill sides which create a shadow over the development in this area. When someone attempts to transmit while in this area, the signal of (?)the radio cannot reach the EBRCSA towers in the area. The old system, which has an antenna at Walton Lane, points directly into the area and that is why the old system works in this area.

Motorola has provided a statement of work which will provide communication to this area and improve communications also in the City of Pittsburg. The statement of work has been reviewed by the Executive Director of EBRCSA and members of the Contra Costa County Department of Information Technology, DoIT. The project will require EBRCSA to identify where the equipment will be placed and provide the Shelter and tower space for the installation. In addition, EBRCSA must apply for FCC licenses and permits. A team consisting of the EBRCSA Executive Director, Motorola Project Manager, and Technician from Contra Costa County DoIT performed a site visit on September 19th and the site has a shelter which belongs to the City of Antioch. However, there is insufficient room to add the necessary equipment.

Motorola has provided the cost of the equipment for the Walton Lane Simulcast Site Add On which is \$697,762. In addition, the cost of a shelter at Walton Lane would be \$60,276.00. We are asking the Committees to provide direction on this project as we do not have all the costs identified at this time. In addition, we will need to have meetings with the City of Antioch, the City of Antioch Water Department, and other tenants who have shelters at Walton Lane.

The Executive Director is seeking approval to proceed with further investigation into the actual costs and necessary actions to ensure the scope of the project is known, and if there are any options that are unknown at this time, before seeking approval from the Board of Directors and a final plan of action concerning this project.

RECOMMENDED ACTION:

It is requested that the Committee review the information provided, and provide a recommendation to the Board of Directors concerning further investigation and discussion into the solution for improving radio communication in Antioch, specifically the area of James Donlon Blvd. Further review is necessary before the Executive Director can determine the necessary amount of funding which will be required for this project.

Attachments:

“A” – Motorola Walton Lane Simulcast Site Add-On

“B” –Fibrebond Shelter Quote

WALTON LANE SIMULCAST SITE ADD-ON



The design, technical, pricing, and other information ("Information") furnished with this submission is proprietary information of Motorola Solutions, Inc. ("Motorola") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the Information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the Information without the express written permission of Motorola. **Error! Unknown document property name.**

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Motorola Solutions
1303 E. Algonquin Rd.
Schaumburg, IL 60196
USA

Tel. + 1 847 576 5000
Fax + 1 847 538 6020

March 16, 2017

Mr. Tom McCarthy
East Bay Regional Communications System Authority
4985 Broder Blvd.
Dublin, CA 94568

Subject: Walton Lane Simulcast Site Add-On

Dear Tom,

Motorola Solutions Inc. ("Motorola") is pleased to provide the East Bay Regional Communications System Authority ("EBRCSA") the following Proposal to add a new 10 channel simulcast site to the Contra Costa East Cell at Walton Lane.

Once again, the Motorola project team has taken great care to propose a solution that will meet your needs and provide unsurpassed value. To best meet EBRCSA's functional and operational specifications, Motorola's solution includes a combination of hardware, software, and services specified in Section 1-1 of the Proposal.

As you know, under Section 3.4 of the Communications System Agreement (CSA), dated July, 7, 2009, and extended to May 10, 2017, between EBRCSA and Motorola (the "CSA"), EBRCSA may purchase additional goods and services from the CSA. Motorola's proposal is based on the assumption that EBRCSA will use this right under Section 3.4 of the CSA for the proposed transaction. Therefore, as in the past, EBRCSA may accept the proposal by executing a Change Order to the current CSA that we have prepared for you.

Motorola will be pleased to address any questions you may have regarding this proposal. Please direct any questions to your Motorola Senior Account Manager, Gordon Poole at (408) 306-5622. This proposal shall remain valid for 60 days. Motorola appreciates your continued confidence in our company, products, and services.

We look forward to continuing our relationship and implementing this project with EBRCSA.

Thank you.

Sincerely,

Motorola Solutions, Inc.



Michael De Benedetti
Area Sales Manager

STATEMENT OF WORK

Motorola Solutions is proposing to East Bay Communications System Authority (EBRCSA) the installation and configuration of the following equipment at the specified locations as shown in Table 1-1.

Table 1-1: Major Equipment by Site

Site Name	Major Equipment
Walton Lane Cell	Add Ten Channel Remote Site to the Contra Costa East Simulcast Cell.

The document delineates the general responsibilities between Motorola and EBRCSA as agreed to by contract.

1.1 MOTOROLA RESPONSIBILITIES

Motorola's general responsibilities include the following:

- Perform the configuration and optimization of the Motorola Solutions supplied equipment described above.
- Install antenna system.
- Schedule the implementation in agreement with EBRCSA.
- Coordinate the activities of all Motorola Solutions subcontractors under this contract.
- Administer safe work procedures for installation.
- Provide EBRCSA with the appropriate system interconnect specifications.

1.2 EBRCSA RESPONSIBILITIES

EBRCSA will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola Solutions. EBRCSA general responsibilities include the following:

- Provide all buildings, equipment shelters, and towers required for system installation.
- Insure communications sites meet space, grounding, power, and connectivity requirements for the installation of all equipment.
- Obtain all FCC and local licensing, site access, or permitting required for project implementation.
- Obtain frequencies for project as required.
- Will provide installation of all FNE equipment (excluding antenna system) provided in this proposal.
- Will install and configure all 48VDC equipment and be responsible for all electrical connectivity.
- Provide required system interconnections including backhaul connectivity to the Kregor Peak Contra Costa East Cell Prime Site.
- Will provide a dedicated delivery point, such as a warehouse, for receipt, inventory and storage of equipment prior to delivery to the site(s).
- Coordinate the activities of all EBRCSA's vendors or other contractors.



Motorola has made several assumptions in preparing this proposal, which are noted below. In order to provide a firm quote, Motorola will need to verify all assumptions or seek alternate solutions in the case of invalid assumptions.

- All existing sites or equipment locations will have sufficient space available for the system described.
- Final system design and coverage analysis are based on FCC Licensing Information.
- All existing sites or equipment locations will have adequate electrical power and site grounding suitable to support the requirements of the system described.
 - There is no more than 25' wire distance between existing power system and new equipment terminals
 - There is a site R56 compliant ground connection within 33' of new equipment installation location.
- Existing tower will have adequate space and size to support the antenna network requirements of the Walton Lane Site Add-on described, and there are available entry ports for antenna cabling within 25' of the ESS rack.
- Any site/location upgrades or modifications are the responsibility of EBRCS.
- Any tower stress analysis or tower upgrade requirements are the responsibility of EBRCS.
- Approved FCC licensing will be provided by EBRCS.
- Approved local, State, or Federal permits as may be required for the installation and operation of the proposed equipment, are the responsibility of EBRCS.
- Any required system interconnections not specifically outlined here will be provided by EBRCS, including but not limited to dedicated phone circuits or microwave links.
- EBRCS will provide the backhaul demarcation point within 10' of the ESS rack location.
- EBRCS will provide a dedicated delivery point for receipt, inventory, and storage of equipment prior to delivery to the site.
- Work will be completed during non-holidays Monday – Friday during normal business hours, 8:00 am – 5:00 pm.
- Training is not included in this proposal.
- There is no Frequency Planning, Fleetmapping, or Subscriber programming and installation content included in this scope.
- All existing towers will have adequate space and size to support the antenna network requirements of the system described.
- Any site/location upgrades or modifications are the responsibility of the customer.
- Coverage guarantee is not included in this proposal.
- Motorola is not responsible for interference caused or received by the Motorola provided equipment except for interference that is directly caused by the Motorola provided transmitter(s) to the Motorola provided receiver(s). Should the Customer's system experience interference, Motorola can be contracted to investigate the source and recommend solutions to mitigate the issue.



SYSTEM OVERVIEW

2.1 SIMULCAST REMOTE SITE ADD-ON

In response to the East Bay Regional Communications System (EBRCS) request for improving coverage in the James Donlon corridor of Antioch in the Contra Costa East cell, Motorola has prepared this proposal. This proposal includes the necessary hardware, software, and services to implement a ten (10) channel 700MHz FDMA simulcast remote site in the existing EBRCS 700MHz trunked system. This site will operate as an additional simulcast remote site in the Contra Costa East cell with existing three (3) sites including Kregor Peak (prime site), Shadybrook, and Los Vaqueros.

Motorola has refined its RF site design through its latest ASTRO releases and is pleased to offer our Expandable Site Sub-System (ESS) as our preferred Simulcast system platform. The ESS offers many features not found in other site solutions including:

- Integrated networking components:
 - Ethernet router(s).
- Shared power supplies among radio components:
 - Capable of either 120V AC or -48V DC power.

The ESS (pictured on right) can support a total of six base radios which can support up to six (6) P25 Phase 1 (FDMA) channels, twelve (12) P25 Phase 2 (TDMA) talk-paths, or any combination in-between. Conventional channels can be supported within the ESS as well. This proposal includes support for the following channels:

- Twelve P25 Phase 1 Channel capable.

The Simulcast remote site has been designed to operate in the 700MHz band, and therefore Motorola has included a TX combiner and an integrated multicoupler. In addition, Motorola has included the necessary networking equipment and software licenses for integrating this site into the ASTRO 25 network.



SYSTEM DESCRIPTION

3.1 SYSTEM OVERVIEW

The East Bay Regional Communications System Authority (EBRCSA) trunked infrastructure design consists of simulcast subsystems and ASTRO 25 standalone repeater sites. The simulcast subsystems also known as "cells" provide coverage and capacity to the various EBRCS agencies based on the operational area and number of users in each cell.

The EBRCS Simulcast Site and Channel count for each cell.

- EBRCS P25 Simulcast Cells.
 - Four Site, 10 Channel 800 MHz Contra Costa West Cell.
 - Four Site, 10 Channel 700 MHz Alameda East Cell.
 - Four Site, 18 Channel 700 MHz Alameda Northwest Cell.
 - Seven Site, 12 Channel 700 MHz Alameda Southwest Cell.
 - Eight Site, 12 Channel 700 MHz Contra Costa Central Cell.
 - Three Site, 10 Channel 700 MHz Contra Costa East Cell.
 - One site, 6 Channel Stand-Alone 800 MHz repeater site for Crane Ridge.
 - One site, 4 Channel Stand-Alone 800 MHz repeater site for Marsh Creek.



SYSTEM COMPONENTS

4.1 SIMULCAST REMOTE SITE ADD-ON

Our proposed simulcast remote site solution for EBRCS includes the following summary of equipment:

- Two (2) Motorola ESS:
 - Supporting the following channels/talk-paths:
 - ◆ Ten P25 Phase 1 Channels.
- One (1) Transmit Antenna.
- One (1) Receive Antenna.
- 250 feet of 1 5/8" Coaxial cable.
- 225 feet of 7/8" Coaxial cable.
- RF Connectors.
- Required Lightning Arrestors.
- Two (2) Motorola GGM8000 Gateways.
- Two (2) HP Ethernet switches.
- Two (2) 7ft equipment racks.
- Site Spares for the simulcast remote site.

The Walton Lane remote site is configured for ten 700MHz channels in the ESS configuration for use on the current 7.15 system.



WARRANTY

5.1 WARRANTY SERVICES EBRCSA CHANNEL EXPANSIONS

Motorola Solutions will provide warranty services per our standard warranty terms and conditions as outlined within the Contract Documentation section within this proposal. In addition to the Standard Commercial Warranty, Post Warranty Services for this Channel Expansion project will be added to the current East Bay Regional Communications System Authority (EBRCSA) Maintenance and System Upgrade Agreements.



EQUIPMENT LIST

This section lists the equipment necessary for the proposed solution.

6.1 WALTON LANE SIMULCAST REMOTE SITE EQUIPMENT

QTY	NOMENCLATURE	DESCRIPTION
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01619AA	ADD: DC POWER
2	CLN1856	2620-24 ETHERNET SWITCH
1	DSTRAK91009EDC	REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC
1	DSTRAK91071	FOUR PORT IRIG B TIME CODE FDM
3	DSTRAK91061	FOUR PORT DDM
50	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT
4	DDN9769	F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE
1	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM
1	CA00855AA	ADD: 700/800 MHZ
1	X305AC	ADD: QTY (5) GTR 8000 BASE RADIOS
5	CA01193AA	IP BASED MULTISITE BASE RADIO SOFTWARE
5	CA01943AA	ADD:2ND BRANCH DIVERSITY
1	CA00862AA	ADD: SITE & CABINET RMC W/CAPABILITY OF 7-24 BRS
1	CA00879AA	ADD: PRIMARY 6 PORT CAVITY COMBINER
1	CA00882AA	ADD: 700 MHZ TX FILTER W/PMU
2	CA00884AA	ADD: QTY (1) XHUB
1	CA01953AA	ADD: POWER EFFICIENCY PACKAGE
1	CA01402AA	ADD: 7.0 FT OPEN RACK
1	CA02686AA	ADD: AC DC POWER DISTRIBUTION
1	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM
1	CA00855AA	ADD: 700/800 MHZ
1	X305AC	ADD: QTY (5) GTR 8000 BASE RADIOS
5	CA01193AA	IP BASED MULTISITE BASE RADIO SOFTWARE
5	CA01943AA	ADD:2ND BRANCH DIVERSITY
1	CA00877AA	ADD: CABINET RMC FOR EXPANSION RACK
1	CA00880AA	ADD: EXPANSION 6 PORT CAVITY COMBINER
1	CA01058AA	ADD: 700/800 PHASING HARNESS
2	CA00884AA	ADD: QTY (1) XHUB
1	CA01953AA	ADD: POWER EFFICIENCY PACKAGE
1	CA01402AA	ADD: 7.0 FT OPEN RACK
1	CA02686AA	ADD: AC DC POWER DISTRIBUTION
1	NPI_001238	PLACEHOLDER CONTROL MONITORING UNIT 700-800

QTY	NOMENCLATURE	DESCRIPTION
1	NPI_001236	PLACEHOLDER TTA, 700-800 custom
1	DLN6455	CONFIGURATION/SERVICE SOFTWARE
1	DSTRAK91061	FOUR PORT DDM
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01619AA	ADD: DC POWER
1	CLN1856	2620-24 ETHERNET SWITCH
1	DLN6885	FRU: XCVR 7/800 MHZ V2
1	DLN6895	FRU: PA 7/800 MHZ
1	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000
1	DLN6781	FRU: POWER SUPPLY
1	DLN6677	FRU: G-SERIES XHUB
1	DLN6793B	FRU: PWR EFF POWER SUPPLY AC/48VDC
1	DLN6898	FRU: FAN MODULE
1	DLN6821	FRU: GTR ANALOG 4W E&M SIMULCST KIT
1	DLN6709	GTR/GPW OPTION CARD
1	DLN6794	FRU: PWR EFF OPTION CARD
1	NPI_000224	DEFAULT ANTENNA
15	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT
1	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE
1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE
5	TDN9289	221213 CABLE WRAP WEATHERPROOFING
5	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT
2	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE
250	L3405	AVA7-50 CABLE: 1 5/8" AVA HELIAX POLY JKT PER FOOT
2	DDN9503	AL7NF-PSA 1-5/8" TYPE N FEMALE POSITIVE STOP CONNECTOR
6	DSSG15806B2A	SG158-06B2A 1-5/8" SUREGROUND GROUNDING
2	DSL7SGRIP	L7SGRIP 1-5/8" SUPPORT HOIST GRIP
250	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT
1	DDN1088	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE
1	DDN1089	L4TNF-PSA TYPE N FEMALE PS FOR 1/2 IN CABLE
6	DSSG1206B2A	SG12-06B2A 1/2IN SURE GROUND GROUNDING KIT
2	DSL4SGRIP	L4SGRIP SUPPORT HOIST GRIP 1/2" LDF
9	MDN6816	STD HANGERS FOR 1/2IN CABLE & EW180/EW220/EW-HANGER KIT STAINLESS-10PK
9	TDN6949	42396A-2 1-5/8" CABLE HANGER KIT 10 PACK
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 12 VDC PASS NM ANTENNA, NF EQUIPMENT
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 12 VDC PASS NM ANTENNA, NF EQUIPMENT
25	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT
2	DDN9769	F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE
25	L1702	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT
2	DDN9682	F4PNMV2-HC 1/2" TYPE N MALE PLATED CONNECTOR

QTY	NOMENCLATURE	DESCRIPTION
1	DDN9743	TK-TW TORQUE WRENCH KIT FOR 7-16 DIN & TYPE N COUPLING NUTS
1	NPI_000224	DEFAULT ANTENNA
15	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT
2	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE
2	TDN9289	221213 CABLE WRAP WEATHERPROOFING
225	DSAVA550	AVA5-50, COAXIAL CABLE, CORRUGATED COPPER, 7/8 IN, BLACK PE JACKET
2	DSA5DFD	D-CLASS 7-16 DIN FEMALE FOR AVA5-50 CABLE
5	DSSG7806B2A	SG78-06B2A GROUNDING KIT FOR 7/8 IN COAXIAL CABLE
2	DSL5SGRIP	L5SGRIP 7/8" SUPPORT HOIST GRIP
8	MDN6817	42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK
1	DSTSXFMBF	RF SPD, 698-2700MHZ DC BLOCK HIGH POWER, DIN FEMALE/MALE BIDIRECTIONAL
1	DSGSAKITD	GROUND STRAP KIT - DIN
25	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT
2	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE
1	DSLMHFX450ST	DC POWER SYS, 48V 450ADC, DIST MOD, LVLD, CONTROLLER, BATT DISC
3	DSLMHF7548VZE1	RECTIFIER, 48V, 75AMP
1	DSIX4U23KKIT	INVERTER KIT, CONTROLLER, STATIC SWITCH, BYPASS, 8 OUT, (2) 1500W INV
1	DSWLBG696ST	BATTERY, 696AH 48VDC STRING CONSISTING OF (24) 2V CELLS ST RATE VLRA
1	DSBPV1948V14R	SPLIT BUS BREAKER PANEL
2	DSSP4KHAM20B1A	BREAKER, 20 AMP
8	DSSP4KHAM10B1A	BREAKER, 10 AMP
4	DSSP4KHAM5B1A	5A CIRCUIT BREAKERS
5	DSSP4KCDPD100B1	100 AMP BREAKER FOR TYPE CDPD
2	DSSP4KCDPD70B1	BREAKER, 70 AMP
2	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS



PRICING

7.1 PRICING SUMMARY

Costs for equipment and services for the Walton Lane Simulcast Remote Site Add-on.

Equipment and Services	Pricing
Equipment Cost Before Discount	\$514,438
Equipment Discount	(\$102,888)
Equipment Cost After Discount	\$411,550
8.75% Sales Tax on Equipment	\$36,011
Total Equipment Cost	\$447,561
System Integration Cost	\$290,811
System Subtotal	\$738,372
2017 Shipping Incentive	(\$40,610)
TOTAL COST	\$697,762

7.2 PAYMENT TERMS

System Invoicing Milestones:

1. 25% of the Contract Price due upon contract execution.
2. 60% of the Contract Price due upon shipment of equipment.
3. 5% of the Contract Price due upon installation of equipment.
4. 5% of the Contract Price upon system acceptance or start of beneficial use.
5. 5% of the Contract Price due upon Final Acceptance.

Overdue invoices will bear simple interest at the rate of ten percent (10%) per annum, unless such rate exceeds the maximum allowed by law, in which case it will be reduced to the maximum allowable rate.

CONTRACTUAL DOCUMENTATION

Under Section 3.4 of the Communications System Agreement (CSA), dated July, 7, 2009, and extended May 10, 2017, between EBRCSA and Motorola (the “CSA”), EBRCSA may purchase additional goods and services from the CSA. Motorola’s proposal is based on the assumption that EBRCSA will use this right under Section 3.4 of the CSA for the proposed transaction. Therefore, EBRCSA may accept the proposal by either issuing a Purchase Order that refers to the CSA and the Motorola proposal, or by executing a Change Order to the current CSA. If you prefer the latter method, Motorola will gladly prepare the Change Order document for execution.





East Bay Regional Communications System Authority



Participating agencies include Alameda and Contra Costa Counties and the following cities and special districts: Alameda, Albany, Antioch, Berkeley, Brentwood, Clayton, Concord, Danville, Dublin, El Cerrito, Emeryville, Fremont, Hayward, Hercules, Lafayette, Livermore, Martinez, Moraga, Newark, Oakley, Pinole, Pittsburg, Pleasant Hill, Pleasanton, Richmond, San Leandro, San Pablo, San Ramon, Union City, Walnut Creek, East Bay Regional Park District, Kensington Police Community Services District, Livermore Amador Valley Transit Authority, Moraga-Orinda Fire District, Rodeo-Hercules Fire District, San Ramon Valley Fire District, California Department of Transportation, Ohlone Community College District, Contra Costa Community College District, Dublin-San Ramon Services District and University of California, Berkeley

OPERATIONS COMMITTEE MEETING

REGULAR MEETING

DATE: October 13, 2017

TIME: 9:30 a.m.

PLACE: Alameda County Office of Homeland Security and Emergency Services,
Room 1013
4985 Broder Blvd., Dublin, CA 94568

MINUTES

1. Call to Order/Roll Call: 9:34 a.m.

Committee Members:

G. Ahern, Sheriff, Alameda County Sheriff's Office

C. Nice, Assistant Sheriff, Alameda County Sheriff's Office (Alternate)

M. McQuiston, Albany Police Department

Staff:

T. McCarthy, Executive Director

C. Soto, Secretary

Public:

M. Williams, Assistant Sheriff, Contra Costa County Sheriff's Office

_____, Contra Costa County Sheriff's Office

G. Poole, Motorola

Chairman Ahern stated that due to a lack of a quorum, items would be reviewed only, with consideration to be taken to the full Board at the Board meeting of October 27, 2017.

2. Public Comment: None.

3. Approval of Minutes of the October 9, 2015, January 8, 2016, May 20, 2016, November 4, 2016, March 24, 2017 and June 2, 2017 Regular Operations Committee Meetings

Due to lack of a quorum, this item was forwarded to the next Operations Committee meeting.

4. Discussion of Lease with East Bay Municipal District for Two EBRCSA Sites

Director McCarthy presented the Staff Report and advised that negotiations had come to a standstill with East Bay Municipal Utility District (EBMUD), regarding the Seneca, Pearl, and Alta Mesa sites. Director McCarthy wanted to go to the full Board for authorization for he and a Boardmember to be allowed to negotiate the leases with EBMUD. This had been ongoing for about 18 months. EBMUD General Manager Alex Coate asked to put discussion of the Seneca site on hold for 12-18 months, as Bishop O'Dowd had shown interest in purchasing the site, and because of government code, EBMUD would have to give first option of the property to certain entities, and those entities did not include JPAs. It would be difficult to find another site in place of Seneca. The Pearl site in San Pablo and Alta Mesa in Moraga would be the two sites to negotiate leases with EBMUD. They were now adding a fourth site, Skyline. EBMUD had to confirm if that was their land.

Chair Ahern asked if all three entities, EBMUD, the Authority and Bishop O'Dowd, were in agreement to put the Seneca site on hold. Was the Committee in agreement with that?

Director McCarthy stated they had not mentioned it to Bishop O'Dowd at this time because they had already purchase their lot of land. EBMUD wanted Bishop O'Dowd to finalize their design plan, and then the Authority would know how close they would be to the Seneca site.

Bm. McQuiston asked if the Seneca site would stay where it was during the 12-18 months period the lease is put on hold.

Director McCarthy stated yes it would stay where it was.

Chair Ahern asked if EBMUD were to sell the property, would Bishop O'Dowd have first option to buy it.

Director McCarthy stated that was why they were waiting the 12-18 months to negotiate the lease. Under the government code, schools would be one of the entities that would get first option to purchase the land.

Bm. McQuiston asked who would be negotiating the lease with the Director McCarthy.

Director McCarthy stated he hoped it would be Bm. Calabrigo as he had been in the discussions with EBMUD.

Bm. C. Nice joined the meeting.

5. Change Order #26 with Motorola Systems, Inc.

Director McCarthy presented the Staff Report and stated with the addition of new consoles and other equipment, the System Upgrade Agreement (SUA) with Motorola needed to be amended to include this additional equipment. This was critical because the consoles needed to have regular updates. The Authority owned all the consoles to keep everything on a common platform. The contract would be increased from \$37,958,781 to \$38,541,685, an increase of \$582,904, spread over the next five years. The next software upgrade will be 7.17, and this was paying ahead for that work.

The Committee agreed that it would recommend this item to the full Board for approval.

6. Discussion of transition to Phase II, from Frequency Division Multiple Access (FDMA) to Time Division Multiple Access (TDMA)

Director McCarthy stated that the original conceptual idea of the System was in need of Phase II. The System was reaching capacity, and going to Time Division Multiple Access (TDMA) would double capacity. This would cost \$7.9 million. The FCC was limiting the number of licenses and bandwidth that was available. The Authority had worked to expand sites, but some sites could not be expanded. TDMA would carry the System throughout the next Phase. This was originally mandated to be done January 2017, but the FCC extended it and not set a new date yet. This needed to be done. This would allow GPS capability, with increased bandwidth.

Chair Ahern asked how it would be paid.

Director McCarthy stated it could be financed. Motorola was offering a 1.7% financing, and he was still discussing this with them. He was asking permission to go more in depth in conversations with Motorola, and come back at the December 1, 2017 full Board meeting with the financial information, and budget change.

Chair Ahern asked if the Authority had the funding.

Director McCarthy stated the Authority had the funding for the TDMA, but they tied into this, replacement of the microwave system to ethernet-based. The System's microwaves were purchased in 2004 and were coming to the end of their life.

Bm. McQuiston asked if the TDMA upgrade had any impact on the subscriber units. Were there costs that they were not seeing, such as upgrading portable radios.

Director McCarthy stated yes. The microwave needed to be upgraded and tying these two together, the breakdown of the sale was if the Authority purchase it by the end of the year, the cost of the TDMA would be \$7,900,000, and would have until March to work on the microwave. The gel cell batteries also needed to be replaced. Contra Costa County was in good shape because they purchased radios that could be upgraded to TDMA. Alameda County did not have the same radio. The Executive Director had been advising everyone for the last couple of years to buy upgradable radios or TDMA radios. Alameda County was looking to buy all the radios for Alameda County agencies, and do a lease-back on the radios. He had not seen that plan yet. That would not be through the Authority. If an agency did not have APEX 6000 radios that were either upgradable or

TDMA ready, they would have to be replaced. Motorola was working with Alameda County. He did not know what the final radio cost would be.

Bm. McQuiston asked when the radios would be needed.

Director McCarthy stated that he knew most agencies had two-year budget cycles, so they needed advance time to anticipate costs. This would be approximately a three-year project, and the System could run dual dynamic where you have TDMA and FDMA operating while going through the transition.

7. Increase NICE Logger Capacity

Director McCarthy stated there was not enough storage space on the logger. They were looking to upgrade to a 12 terabyte storage center which would tie to the System's logger. It had become necessary. In Oakland, they had to maintain all their recordings for four years. That was a lot of recordings. He would set a limit of two years. This would also include training. There is only one person that works with the logger. This would allow six technicians to go to training on working with the logger. The 12 terabytes and the training would cost \$82,645. There were contingency funds to pay for such items.

Chair Ahern stated it was important to have more than one person trained to work on the logger.

Bm. McQuiston stated it was good to have a two-year storage limit policy.

8. Walton Lane Simulcast Site Add-On

Director McCarthy presented the staff report and stated Antioch had a problem on James Donlon Boulevard. There was a shadow with the microwave. When police and fire went to that area, they had to change channels back to their old radio system. For the System to work appropriately, they needed to add a new site. Before Ed Woo of Contra Costa County retired, he put money in his budget to place a shelter there. Motorola cost was \$698,000 for all the equipment needed for a new site. The price on the shelter was \$60,276. There were more details to investigate. Contra Costa has the money to buy and own the shelter, but the Authority would need to purchase the equipment to put in it. This would benefit both Antioch and Pittsburg.

Chair Ahern asked how big of an area was affected.

Director McCarthy stated several miles.

Bm. McQuiston asked why had this become a problem. When the System was being designed, they had designed it with the anticipation of both Counties being covered, and he did not remember there being a problem in that area. It sounded like an oversight.

Director McCarthy stated when the System was being designed, Antioch was not coming on the System. It was not an oversight on Motorola's end. Part of the problem was that Antioch has encrypted their channels. If they did not have encryption, they could do what is called simulcast, where they used a combination of their old system and the new System to fill in the void.

Bm. McQuiston stated Antioch had gone off on their own and done the encryption in violation of what the spirit of the Authority's policies were originally, and now they were faced with spending \$600,000 to accommodate their decision; he disagreed with this in philosophy.

Bm. Nice stated it had been Antioch's decision that could now cost the Authority more money. If they insisted on their own system, then they should pay for it.

Director McCarthy stated he was not asking for this purchase to be approved today, he was advising the Board that he was investigating this because he had not yet confirmed that by simulcasting, it would cover that area adequately. He just wanted to inform the Boardmembers and see how they felt about it.

Chair Ahern stated he did not want to set precedence. They could have further discussion, but he did not know how in favor the Operations Committee was in supporting this type of idea.

Director McCarthy stated he was asking if the Operations Committee wanted him to continue to investigate and find out the costs. He could make a recommendation to the Chief of Antioch and tell him he needed to remove the encryption and try simulcasting for a while.

Bm. McQuiston stated it was important to have a robust System for all the users and they would have to investigate these issues.

Bm. Nice asked if Antioch was doing any investigation into solutions.

Director McCarthy stated they did not have the engineering staff. Motorola and Contra Costa Technology Department was assisting him.

The Operations Committee agreed that Executive Director McCarthy investigate the issue, but there would be a discussion with the full Board.

9. Receive an Update concerning Expansion of Alameda County East Cell to 12 Channels

Director McCarthy stated the work had been completed. He would be seeking the grant reimbursement.

10. Receive an update concerning the Motorola Inter Sub-System Interface ISSI 8000

Director McCarthy stated the ISSI had been delivered and installed. He would be working with BART to optimize it. This was a solution so when first responders went underground, they could still communicate. The ISSI 8000 was a needed redundant system. He would be seeking reimbursement.

11. The EBRCSA will be seeking nominations for the Board of Directors Vice Chair at the October Board of Directors Meeting to fill the vacancy as Vice Chair Tim Anderson is retiring and will no longer be a Board Member as of November 2017

The Authority would be looking for nominations for Chair and Vice Chair at the December 1, 2017 Board meeting. The Chair and Vice Chair could not be from the same County.

12. Agenda Items for Next Meeting – None.

13. Adjournment

With no further business coming before the Operations Committee, the meeting was adjourned at 10:19 a.m.

DRAFT

CONTRA COSTA
OPERATIONAL AREA

HOMELAND SECURITY
GRANT PROGRAM

2019
SUB-GRANTEE
GRANT APPLICATION

PROJECT NAME: Land Mobile Radio Site
Antioch California

INSTRUCTIONS FOR DOCUMENTATION AND COMPLETION OF GRANT APPLICATION

ALL APPLICATION MUST BE SUBMITTED BY: **Wednesday November 28th, 2018**

Grantees are required to submit a completed Grant Application by the deadline. Applications must include the scope of the project, the objectives and performance measures. Include any significant events or activities. A Quarterly Narrative Progress Report will be required if a grant is awarded, regardless of size of disbursement.

The attached form shall be used to request grant money from the State Homeland Security Grant Program.

Submission. Submit the State Homeland Security Grant Program (SHSGP) Grant Request with original signatures to the address below. The request may be faxed or sent electronically for expediency, if promptly followed by the request with original signatures.

Office of the Sheriff
Emergency Services Division
50 Glacier Dr.
Martinez, CA 94553

General Telephones
Phone: (925) 646-4461
Phone: (925) 228-5000
FAX: (925) 646-1120

Grant Administration and Project Management: The SHSGP Grant is managed by the Office of the Sheriff, Contra Costa County. All questions should be directed to the **Lt. Nate McCormack** or **Rick Kovar** at the Emergency Services Division (925-646-4461). Specific grant disbursements passed through to the individual jurisdictions will be subject to proper MOA and have a Homeland Security Working Group member assigned to oversee the progress of the grant.

Note:

It is the responsibility of the agency requesting funds to research and ensure that the project meets the codicils of the State Homeland Security Grant program. State supplemental guidance will be provided when available.

Prior to award of funds, project managers will be required to attend a Grant kick off meeting to ensure all grant rules are followed. This meeting will be scheduled once application is approved by the State in late 2019.



**County of Contra Costa
Office of the Sheriff**

**STATE HOMELAND SECURITY GRANT PROGRAM
(FY19 SHSGP)
GRANT APPLICATION**

The information provided will be used by the grantor agency to monitor grantee performance and project implementation to ensure proper use of Federal funds. No further monies or other benefits may be paid out under this program unless this report is completed and filed on time as required. The Narrative Progress Report must support the expenditures in the Financial Progress Report.

1. AGENCY NAME AND ADDRESS Contra Costa Sheriff's Office Emergency Services Division 50 Glacier Dr. Martinez, CA 94553	2. STATE GRANT NUMBER 013-00000	3. OPERATIONAL AREA CONTRA COSTA
4. REPORTING PERIOD (Dates) From: 7/1/19		To: 5/31/21 <i>(Estimate)</i>

5. TITLE OF PROJECT:
Land Mobile Radio Site Antioch California

6. TOTAL PROJECT COST \$1,200,000.00	7. IS PROJECT SCALABLE? MINIMUM ALLOCATION REQUESTED \$ \$500,000.00
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8. NAME AND TITLE OF PROJECT MANAGER	9. SIGNATURE OF PROJECT MANAGER	10. DATE OF REQUEST 11/20/2019
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11. PROJECT REQUEST NARRATIVE *(What will Funds Provide)*

The East Bay Regional Communications System Authority (EBRCSA) has built a two county, Alameda and Contra Costa, Project 25 Land Mobile Radio System serving Fire, Police, Sheriff, and Emergency Medical Services. The system provides seamless interagency communication in those two counties. In addition we have Interoperable radio communications between Santa Clara, San Francisco, San Mateo, and Marin Counties. We are requesting funding to add a Land Mobile Radio Site in the City of Antioch. The City of Antioch has an area which is not covered by EBRCSA and communications can only be added with an additional site.

Mandatory items: Summarize application request below for each task. Each field will expand as necessary. Attach supplemental documentation or pages for additional comments as needed.

12. State Investment Justification:
 Additional commentary or supplemental information is attached.

SHSG Investment Justification:
Core Capability:
 Ensure the capacity for timely communications in support of security, situational awareness and operations by any and all means available among and between affected communities in the impact area and all response forces.

The core capability in this case impacts multiple Public Safety Agencies; Antioch Police, Contra Costa County Sheriff, East Bay Regional Park Police, Contra Costa County Fire Department, and Emergency Medical Services. The area is not adequately served by the current radio available in the area. The sites are operate at a high level elevation by virtue of their location and do not serve the valley where communications is impacted. Responders are unable to communicate and have to resort to an old system which is not maintained or available to all who may respond in an emergency. The placement of a new site will enhance communications in the neighboring area of Pittsburg and along the water which is unreliable for LMR radio communications.

SHSG Investment Justification (IJ):
 Strengthen Emergency Communications Capabilities Through Planning, Governance, Technology, and Equipment.

Alameda and Contra Costa Counties have created a Joint Powers Agreement, East Bay Regional Communications System Authority (EBRCSA), which continues to build the two county Land Mobile Radio System. The two counties have seen tremendous growth which was not included in the initial phase of the radio system build. We have now seen development in areas which are on the perimeter of the initial build of the radio system. In order to maintain the strength of the Emergency Communications Capability we need to add an additional site in Contra Costa County, specifically in the City of Antioch.

FY19 SHSG

13. Funding Match [] Cal OES may require a 25% match from agencies receiving Homeland Security Funds. Is your agency prepared to meet the 25% match if it is required? YES XX No What funding source will your agency use to provide matching funds for the State Homeland Security Grant Program: The East Bay Regional Communications System Authority will provide the 25% match from their Operating Revenue. <i>Note: This match has not been finalized, but grantees need to be prepared to provide the match if it is required.</i>	
14. Include Authorized Equipment List (AEL) #'s for each piece of equipment (AEL List sent with application) [X] All equipment requests must be itemized and include required AEL number. https://www.fema.gov/authorized-equipment-list . AEL # 06CP-03 AEL Title: MWAV Radio, Microwave Link AEL # 06CP-01 AEL Title: Radio, Base	
15. Has Your Department Head Approved this Application Request? Yes Name of Department Head: Jeff Carman, Fire Chief – Contra Costa County Fire Protection District	
16. CERTIFICATION BY GRANTEE : I certify that the activities conducted are aligned with <i>State Homeland Security Strategy</i> goals and objectives, <i>Homeland Security Exercise Evaluation Plan</i> requirements, the project plan as stated in the Application and/or Scope of Work, comply with grant program guidelines, and have received Op Area OES pre-approval where required. Signatory Official Signature	17. DATE

INSTRUCTIONS FOR DOCUMENTATION AND COMPLETION OF GRANT APPLICATION

Grantees are required to submit Grant Application on SHSGP including the project Scope of Work. Applications include the scope of the project, the objectives and performance measures. Include any significant events or activities. A Quarterly Narrative Progress Report will be required if a grant is awarded, regardless of size of disbursement.

This form shall be used to request grant money from the State Homeland Security Grant Program.

Date Due. Request is due by **Wednesday November 28th, 2018**

The Final Quarterly Narrative Progress Report for any multi-year grant is due 45 days following the close of the grant period.

2. **Submission.** Submit the SHSGP Grant Request with original signatures to the address below. The request may be faxed or sent electronically for expediency, if promptly followed by the request with original signatures.

Office of the Sheriff
Emergency Services Division
50 Glacier Dr.
Martinez, CA 94553

General Telephones
Phone: (925) 646-4461
Phone: (925) 228-5000
FAX: (925) 646-1120

3. **Grant Administration and Project Management:** The SHSGP Grant is managed by the Office of the Sheriff, Contra Costa County. All questions should be directed to the **Lt. Nate McCormack** or **Rick Kovar** at the Emergency Services Division (925-646-4461). Specific grant disbursements passed through to the individual jurisdictions will be subject to proper MOA and have a Homeland Security Working Group member assigned to oversee the progress of the grant.
4. **Form and Execution.** Grantees shall use this form as a face sheet. Use one form per report per grant program request and check the appropriate box. Attach additional pages as needed. The Grant Request shall be signed by the Project Manager designated on the Obligating Award Document, or any duly-authorized successor or a specific person delegated in writing by the Authorizing Official.
5. **Reporting Requirements.** The grant request requirements are designed to provide the Office of Emergency Services with sufficient information to monitor and award grant disbursements. Failure to complete Grant Application will cause application to not be reviewed.

FY19 SHSG