



AGENDA

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

BOARD OF DIRECTORS MEETING

Thursday, January 11, 2018 • 9:00 a.m.

Los Angeles County Sheriff's Department

The Hertzberg Davis Forensic Science Center

Conference Room 223 through 227

1800 Paseo Rancho Castilla, Los Angeles, CA 90032

Los Angeles Regional Interoperable Communications System Authority (the "Authority")

AGENDA POSTED: January 5, 2018

Complete agendas are made available for review at the designated meeting location. Supporting documentation is available at the LA-RICS Office located at 2525 Corporate Place, Suite 100, Monterey Park, CA 91754 during normal business hours and may also be accessible on the Authority's website at <http://www.la-rics.org>.

Members:

1. **Sachi Hamai**, CEO, County of Los Angeles
2. **Daryl L. Osby**, Vice-Chair, Fire Chief, County of Los Angeles Fire Dept.
3. **Jim McDonnell**, Chair, Sheriff, Los Angeles County Sheriff's Dept.
4. **Cathy Chidester**, Dir., EMS Agency, County of LADHS
5. **Chris Donovan**, Fire Chief, City of El Segundo Fire Dept.
6. **Joe Ortiz**, Chief of Police, City of Sierra Madre Police Dept.
7. **Mark R. Alexander**, City Manager, CA Contract Cities Assoc.
8. **Mark Fronterotta**, Chief of Police, City of Inglewood Police Dept.
9. **Chris Nunley**, Chief of Police, City of Signal Hill Police Dept.
10. **John Curley**, Chief of Police, City of Covina Police Dept.

Alternates:

John Geiger, General Manager, CEO, County of Los Angeles
Chris Bundesen, Asst., Fire Chief, County of Los Angeles Fire Dept.
Dean Gialamas, Division Dir., Los Angeles County Sheriff's Dept.
Kay Fruhwirth, Asst., Dir., EMS Agency, County of LADHS
Scott Haberle, Fire Chief, City of Monterey Park Fire Dept.
Donna Cayson, Captain, City of Sierra Madre Police Dept.
Marcel Rodarte, Executive Dir., CA Contract Cities Assoc.
Louis Perez, Deputy Chief, City of Inglewood Police Dept.
Brian Leyn, Captain, City of Signal Hill Police Dept.
David Povero, Captain, City of Covina Police Dept.

Officers:

Scott Edson, Executive Director
John Naimo, County of Los Angeles Auditor-Controller
Joseph Kelly, County of Los Angeles, Treasurer and Tax Collector
Priscilla Lara, Board Secretary



NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

I. CALL TO ORDER

II. ANNOUNCE QUORUM – Roll Call

III. APPROVAL OF MINUTES (A-B)

A. November 2, 2017 – Regular Meeting Minutes

Agenda Item A

B. December 14, 2017 – Special Meeting Minutes

Agenda Item B

IV. PUBLIC COMMENTS

V. CONSENT CALENDAR – (None)

VI. REPORTS (C-E)

C. Director’s Report – Scott Edson

- LTE Update
- LMR Update
- LA-RICS Grant Status
- Status of PSBN Agency Onboarding

Agenda Item C

D. Project Manager’s Report – Chris Odenthal

Agenda Item D

E. Joint Operations and Technical Committee Chairs Report – Ted Pao and Kyle Zuniga



VII. DISCUSSION ITEMS (F-G)

F. Outreach Update

Agenda Item F

G. PSBN Onboarding Update

Agenda Item G

VIII. ADMINISTRATIVE MATTERS (H)

H. APPROVE MODIFICATION TO FUNDING SOURCE FOR PREVIOUSLY APPROVED SOW UPGRADE

It is recommended that your Board:

It is recommended that your Board approve a modification to the fund source for work performed on the Authority's Deployable Vehicle totaling \$235,768, to be payable from the Fiscal-Year 2017-18 Adopted Budget Long Term Evolution (LTE) Operations and Maintenance (O&M) fund source.

Agenda Item H

IX. MISCELLANEOUS – NONE

X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD

XI. CLOSED SESSION REPORT - NONE

XII. ADJOURNMENT and NEXT MEETING:

Thursday, February 1, 2018, at 9:00 a.m., at the Los Angeles Sheriff's Department, Scientific Services Bureau, located at 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.



BOARD MEETING INFORMATION

Members of the public are invited to address the LA-RICS Authority Board on any item on the agenda prior to action by the Board on that specific item. Members of the public may also address the Board on any matter within the subject matter jurisdiction of the Board. The Board will entertain such comments during the Public Comment period. Public Comment will be limited to three (3) minutes per individual for each item addressed, unless there are more than ten (10) comment cards for each item, in which case the Public Comment will be limited to one (1) minute per individual. The aforementioned limitation may be waived by the Board's Chair.

(NOTE: Pursuant to Government Code Section 54954.3(b) the legislative body of a local agency may adopt reasonable regulations, including, but not limited to, regulations limiting the total amount of time allocated for public testimony on particular issues and for each individual speaker.)

Members of the public who wish to address the Board are urged to complete a Speaker Card and submit it to the Board Secretary prior to commencement of the public meeting. The cards are available in the meeting room. However, should a member of the public feel the need to address a matter while the meeting is in progress, a card may be submitted to the Board Secretary prior to final consideration of the matter.

It is requested that individuals who require the services of a translator contact the Board Secretary no later than the day preceding the meeting. Whenever possible, a translator will be provided. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the meeting you wish to attend. (323) 881-8291 or (323) 881-8295

SI REQUIERE SERVICIOS DE TRADUCCION, FAVOR DE NOTIFICAR LA OFICINA CON 72 HORAS POR ANTICIPADO.

The meeting is recorded, and the recording is kept for 30 days.



BOARD OF DIRECTORS MEETING MINUTES

**LOS ANGELES REGIONAL
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY**

November 2, 2017
The Hertzberg Davis Forensic Science Center
1800 Paseo Rancho Castilla, Conference Room 263
Los Angeles, CA 90032

Board Members Present:

Cathy Chidester, Dir., EMS Agency, County of LADHS
Joe Ortiz, Chief of Police, City of Sierra Madre Police Dept.
Mark Alexander, City Manager, CA Contract Cities Assoc.
Mark Fronterotta, Chief of Police, City of Inglewood Police Dept.

Alternates For Board Members Present:

John Geiger, General Manager, CEO, County of Los Angeles for **Sachi Hamai**, CEO, County of Los Angeles
Chris Bundesen, Vice-Chair, Asst. Fire Chief, County of Los Angeles Fire Dept., for **Daryl L. Osby**, Vice-Chair, Fire Chief, County of Los Angeles Fire Dept.
Dean Gialamas, Division Dir., Los Angeles County Sheriff's Dept., for **Jim McDonnell**, Chair, Sheriff, Los Angeles County Sheriff's Dept.

Officers Present:

Scott Edson, LA-RICS Executive Director
Priscilla Lara, LA-RICS Board Secretary

Absent:

Chris Donovan, Fire Chief, City of El Segundo Fire Dept.
Chris Nunley, Captain, City of Signal Hill Police Dept.
John Curley, Chief of Police, City of Covina Police Dept.



NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

I. CALL TO ORDER

Director Dean Gialamas called the Regular Meeting of the Board to order at 9:02 a.m.

II. ANNOUNCE QUORUM – Roll Call

Director Gialamas acknowledged that a quorum was present and asked for a roll call.

III. APPROVAL OF MINUTES FOR THE REGULAR MEETING

A. October 5, 2017 – Regular Meeting Minutes

Alternate Board Member Geiger motioned first, seconded by Board Member Fronterotta.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

IV. PUBLIC COMMENTS

Director Gialamas indicated two (2) individuals have signed up for public comments; Mr. Chris Moore of Rivada Networks and Mr. David Wiederecht of Verizon.

Mr. Moore was first to provide public comment and stated he was privileged to present to the LA-RICS Board in August regarding the future of FirstNet in California as well as LA-RICS. Mr. Moore stated he was here to provide an update. Mr. Moore mentioned to the Board that on September 28th California received its final offer / plan and, in addition to all other states, California has until December 28th to decide whether they want to opt-in or opt-out of FirstNet. Mr. Moore went on to further state that California First Responders Network (CalFRN) at their meeting in Sacramento on October 11, 2017, concluded after their review of the AT&T FirstNet plan, came back with a score of 2.2 out of 5, which is equivalent to a D. Mr. Moore indicated that FirstNet stated \$15 billion is the maximum figure in penalties that could be assessed to the State for failure to perform following opt out, however that can be negotiated. Mr. Moore further indicated the County of Los Angeles along with other jurisdictions, should go to its representatives in Congress, in particular, the ones that helped lead the initial efforts to secure public safety spectrum. Mr. Moore referenced Anna Eshoo, a California House Representative, comment from yesterday in her testimony before the Energy and Commerce Hearing was very clear we do not want to get limited to a specific provider and pay a great deal of money for service that is not as good as what is available today. If the state opts out there is no penalty for



another six (6) months which equates to 180 days to develop your options, negotiate further or get a better deal and if you don't like it then LA-RICS can build their own. Mr. Moore urged the LA-RICS Board Members to use their leverage to optimize their position to look at other options for the Public Safety Network while there are no penalties for the next 6 months.

Mr. Wiederecht was next to provide public comment and acknowledged LA-RICS for making the need known for a public safety grade network. Mr. Wiederecht informed the Board that Verizon supports choice, open competition, and interoperability and indicated that he referenced and believed Mr. Moore of Rivada Networks and acknowledged he did a good job in making the point that this is a good opportunity for California to exercise that option. Working together is the best opportunity for public safety to have what they need, such as full interoperability, secure end-to-end network, and the opportunity to provide critical services when needed. Verizon is absolutely committed to providing such services. Mr. Wiederecht stated he would like to echo when asked earlier would Verizon respond to an RFP to the state of California the answer still is yes. Verizon addressed the Board Members and reiterated the statement made to the CalFRN Board on October 11, 2017, that Verizon will bid if the State of California issues an RFP for an alternative RAN vendor to FirstNet. Verizon is side-by-side with LA-RICS and that is what is important for the safety of the public at large and Verizon supports that and wants LA-RICS to have a choice.

V. CONSENT CALENDAR – (None)

VI. REPORTS (B-C)

B. Director's Report – Scott Edson

Executive Director Edson acknowledged Administrative Deputy Susy Orellana-Curtiss for presenting in his stead at the November Board Meeting while he attended the International Association of Chiefs of Police (IACP) Conference. Executive Director Edson referred the Board Agenda Item B, the Executive Summary Agenda for his written report, which covers an LTE update, LMR update; grant status, onboarding and audit information.

Executive Director Edson stated in regards to LTE, it is still very important to the region that LA-RICS public safety grade sites be incorporated into any solution and a dedicated Band 14 is still the best solution. This has been the vision of the public safety alliance for over a decade. For that reason, the state should still issue an RFP as has been requested by way of a letter sent from the Chair and Vice-Chair of this Board to the Governor. Executive Director Edson informed the Board that LA-RICS is still in negotiations with AT&T for the incorporation of LA-RICS sites into the FirstNet solution assuming the State opts-in and the federal government approves of the asset



transfer. If we are able to finalize that deal, a special meeting may be needed with your Board. We are also speaking with Verizon who has announced a competing public safety solution to that of AT&T; we want to see how that fits into the FirstNet National PSBN. Ideally, the state should issue an RFP, to ensure that all available solutions for California and this region are evaluated. Executive Director Edson further informed the Board that two days prior to the Board Meeting, LA-RICS had an opportunity to use 20 different devices from both AT&T and Verizon at the Halloween Parade and Festival. We are still examining the detailed data and will return to your Board with a report once an analysis is complete. At the West Hollywood Carnival event Executive Director Edson stated that Band 14 was utilized and he was pleased to report that Band 14 performed well with a crowd estimated at several hundred thousand. Executive Director Edson expressed how important local control was because you need to be able to block out the public's use at critical times. As such, we need to recognize that although priority preemption is technically possible there is still work to be done.

In regards to LTE, we plan to collocate sites on LMR towers in the mountains and Catalina and fund it with the balance of the BTOP grant as part of any Round 2 augmentation for the PSBN. We have spoken to NTIA and they are supportive of this approach and are waiting to see where we end up with who our network provider will be to build that spectrum in the mountains for the purpose of public safety, whether it be AT&T or the State's vendor. As we know, fires occur in the mountains. We have an opportunity to put dedicated spectrum in the mountains to serve the public, a carrier will have the ability to provide service for hikers, and campers, which can benefit them as well.

In regards to the LMR update, Executive Director Edson explained that Jacobs and Motorola are making every effort to stay on target with the 20/20/20/20 plan. To aid in this effort and due to the need to secure Site Access Agreements (SAA) and align site costs with proposed work (true-ups), this may drive the need for special meetings.

Moving forward to the T-Band there's an effort underway to change the law, so that public safety can retain the T-Band. In 2012, a bill passed that provided 20MHz of spectrum for public safety. The NPSTC also hosted two (2) conference calls and face-to-face calls in Philadelphia and another meeting will be held in New York next month about this issue.

Executive Director Edson went on to inform the Board that he attended the Fire Chief's Association and explained how great it was to interact with Chief Donovan and other Fire staff, discussing their business needs and how LA-RICS can assist in achieving those needs.

Alternate Board Member John Geiger stated that as we move forward into the next cycle with LMR, he would recommend that Executive Director Edson encourage staff



to work with Counsel to explore procedures to avoid the need for special meetings. The Executive Director could have certain parameters for delegated authority that can be exercised in advance written notification to the Board of Directors and unless a Board Member(s) wanted to retain the special meeting, you could proceed with such authority. Executive Director Edson stated that staff will look into the option of such delegated authority. Board Member Chidester stated that at the UASI Approval Authority meeting held on November 1st there was some discussions regarding Motorola products and their respective life span, what is the normal life span for maintenance and support of Motorola equipment and is this an issue for us? Executive Director Edson stated as a general rule the devices life span is ten (ten) years. After ten (10) years they have to notify their subs that they have to start ramping up as the life cycle of the product is coming to an end as part of their contractual obligation. Executive Director stated we replace our personal electronics, such as televisions, cell phones, computers in three (3) to five (5) years, which is less than the life saving devices of ten (10) years, which is very reasonable. Alternate Board Member Bundesen concurred and stated the Fire Department shares the same experience. Board Member Chidester stated the comments mentioned at the UASI Approval Authority meeting indicated that it was an issue and she wanted to confirm if this is an issue or common among all telecommunications companies

At the conclusion of the Director's Report, Director Gialamas acknowledged that Board Member Alexander arrived, but was not present during roll call.

C. Project Manager's Report – Chris Odenthal

Project Manager Odenthal stated that Executive Director Edson went over most of the negotiations pieces with both Verizon and AT&T on the PSBN. He went on to inform the Board that seven (7) of the nine (9) SCE COWs are now broadcasting with coverage throughout the basin. All other activities other than the performance of the network at the Halloween Parade and Festival were very good. Project Manager Odenthal inquired if the Board had any questions regarding LTE before he moved on to LMR progress. Board Member Alexander asked if we were involved with any of the Dodger events. Project Manager Odenthal stated no and explained that Dodger events fall within Los Angeles Police Department (LAPD) purview and explained that they operate on Sprint. No further discussions on LTE.

In regards to the LMR update and how we are progressing towards UASI 13' performance period end date, Project Manager Odenthal indicated that LA-RICS has started activity on four (4) sites in the last couple of weeks. Currently these sites are undergoing pre-construction activities and we anticipate permits being released soon. As discussed at the last board meeting, we are expecting several permits to be ready mid-month.



Project Manager Odenthal went on to further inform the Board we have had discussions with our partner Motorola making sure any drawings and permits are received so construction can begin. With respect to those dates and in the interest of full transparency, some of those dates were missed; we did not receive permits in accordance with the schedule for October. The Authority will continue to hold Motorola responsible via contract for securing permits on schedule. We do have good news on a few sites; Oat Mountain Nike (ONK) permit was released two (2) weeks ahead of schedule, Tejon Peak (TPK) will be released today and Monte Vista (MVS) will be released either today or tomorrow.

Project Manager Odenthal stated the goal is to ensure LA-RICS adheres to Cal OES and FEMA for spending guidelines for UASI 13'. Project Odenthal expressed to the Board that LA-RICS is not in any jeopardy of not meeting requirements, he was simply reporting that certain permit release dates were not met as per Motorola schedule in October.

Director Gialamas asked if the sites that missed their dates are on a fast track or are we expecting significant delays on those permits? Director Gialamas further inquired if LA-RICS has any indication from the Department of Public Works (DPW) or Motorola if this is the case. Project Manager Odenthal responded not in December, but the expectation is they will be forthcoming within the coming days or a week or two. The future dates in November are planned, it is only the October dates that have slipped.

Project Manager Odenthal further informed the Board of the next sites scheduled for construction:

- Monte Vista (MVS) – within a day or two.
- Mount McDill (MMC) – within a week or two.
- Tejon Peak (TPK) – Gorman – shelter delivered, tower on-site and permit will be issued today.
- PLM – preparation work ongoing for the second core location.

Board Member Alexander asked if there is a non-LA-RICS related reason to remove the asbestos at the CCT site or is there another location that we can collaborate with the Courts. Project Manager Odenthal stated even though abatement is necessary it does not constitute moving the site. The cost of abatement would be negotiated with Motorola. Board Member Chidester asked could we get another site. Project Manager Odenthal stated that it was too late and unfortunately there is no other building that provides the coverage needed for the area. Board Member Chidester inquired if we are considering some of the new buildings the County plans to construct as locations for our sites. Project Manager Odenthal indicated the new building code requires that public safety communications exist in all new buildings.



Project Manager Odenthal stated the Universal Studios, Comcast is a true-up site and we are going forward with UASI 17' funds, and expressed the team's excitement with the site because of its coverage.

Project Manager Odenthal went on to provide an update on MPLS, which is a \$2.2 million network routing solution this gives the operations and maintenance the tools needed to maintain the network. In addition, he explained that it is a better solution than the bid received five (5) years ago. Technology has advanced and MPLS is a reflection of the technology advancement.

Finally, Project Manager Odenthal informed the Board of a change order for asbestos remediation at MVS, which is a contract amendment to the LMR Agreement with Motorola.

Project Manager Odenthal stated the Spending Plan justification memo is due to Cal OES and FEMA by this afternoon pending your approval of the revision in cost to the Universal Studios Comcast site.

Board Member Alexander asked if the Universal Studios site is replacing an identified location. Project Manager Odenthal responded that it was for the Mount Lee site, which is a City of Los Angeles site. He explained that when the City of Los Angeles chose not to participate in LA-RICS, LA-RICS chose to go to Universal Studios as the replacement site due to targeted coverage needed.

Executive Director Edson added one of the most difficult tasks for this project is making everything fit under the UASI funding amounts and performance period while successfully rearranging the many moving parts when you come across issues, i.e. Site Access Agreements, Permits, the design, etc., and acknowledged the Jacobs and Motorola teams as doing an "awesome job" with making adjustments to make everything fit.

D. Joint Operations and Technical Committee Chairs Report – Ted Pao and Kyle Zuniga

Technical Committee Chair, Ted Pao informed the Board that the Joint Operations and Technical Committees convened on October 24, 2017; and a status report was provided at that meeting from Steve Sidore from Televate, the LA-RICS broadband engineering Consultant. Mr. Pao went on to explain the closeout of COW sites are in process pending end-to-end testing and authorization to bring those sites up. In regards to Phase 2 PSEN (Public Safety Enterprise Network) connectivity, three (3) of the four (4) are complete.

As mentioned earlier, LA-RICS served on the review team and provided feedback and analysis on specific assigned sections of the FirstNet final State Plan, contributing a



great deal of comments. LA-RICS also separately submitted comprehensive comments to CalFRN on the entire state plan and attended the CalFRN meeting held on October 11, 2017.

Mr. Pao stated the Halloween Parade and Festival had outstanding support from our partner Motorola, who helped us monitor the system usage during the event; they helped us set-up a conference bridge as well as had personnel standing by to resolve any issues that may have occurred.

In regards to LMR, the Joint Committee received a report from Project Manager Odenthal. There has been conversations about the possibility of an early deployment/early migration; this is a new topic for the committee to look into. LA-RICS has acquired interest from certain agencies who want to join the LA-RICS LTE/LMR system. The Joint Operations and Technical Committees are going to proceed with forming a working group to start the migration plan.

Mr. Pao went on to explain that the Joint Operations and Technical Committee have two (2) items; Agenda H and I. The committee approved special events and the updated policy to allow the Executive Director to approve any cost associated with the event deployment or Memo of Understanding (MOU) to use the LA-RICS assets. The other item is approval of the LA-RICS Cybersecurity Incident Response Plan, as we want to ensure we are ready for any cyber attacks prior to system deployment. The Cybersecurity Incident Response Plan was drafted by a working group and approved by the committees. Agenda H and I are before you for your approval at this meeting.

Board Member Alexander requested the Executive Director direct staff to provide an outline of adopted policies, procedures, and yet to be adopted policies for Board review. Administrative Deputy Susy Orellana-Curtiss informed Board Member Alexander that staff will provide a list to the Board and report each time there is an update to the same.

VII. DISCUSSION ITEMS (E-F)

E. Outreach Update

Executive Assistant Wendy Stallworth-Tait provided the Outreach Update in her report. There was no further discussion.

F. PSBN Onboarding Update

Executive Assistant Stallworth-Tait provided the PSBN Onboarding Update in her report. There was no further discussion.



Director Gialamas asked in relation to the Rose Parade, if there would be any new technology to view or testing. Mr. Pao stated we are looking into using quick deployment using a smaller vehicle with some kind of backhaul technology that we can deploy quickly.

VIII. ADMINISTRATIVE MATTERS (G-L)

G. 2018 SCHEDULE OF LA-RICS BOARD MEETINGS

Executive Assistant Ms. Stallworth-Tait presented to the Board Agenda Item G and requested the Board take the following actions:

1. Approve the following dates for the calendar year 2018 Board Regular Meeting Schedule:

January 4
February 1
March 1
April 5
May 3 (Conference Room 263)
June 7
July 5 (day after 4th of July Holiday)
August 2
September 6 (week of Labor Day Holiday)
October 4
November 1
December 6

All Regular Meetings will be held at 9:00 a.m., Pacific Time at the at the Los Angeles County Sheriff's Department, The Hertzberg Davis Forensic Science Center, 1800 Paseo Rancho Castilla, Conference Rooms 223 through 227 and 263, Los Angeles, California 90032.

Board Member Alexander stated he would miss the first five (5) meetings of the year. Director Gialamas asked Board Member Alexander if his alternate would miss the first five (5) meetings as well. Board Member Alexander stated Alternate Member Marcel Rodarte would miss March 1st as well. Alternate Board Member Geiger prefers the April 5th date be moved to April 12th. Counsel Truc Moore read alternative motion dates into the record; January 11th will replace January 4th, April 12th will replace April 5th, July 12th will replace July 5th and September 13th will replace September 6th.



Alternate Board Member Geiger motioned first, seconded by Alternate Board Member Gialamas.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

H. APPROVE REVISIONS TO LA-RICS SPECIAL EVENTS DEPLOYMENT POLICY

Contract Manager Jeanette Arismendez presented to the Board Agenda Item H and requested the Board take the following actions:

1. Approve revisions to the adopted existing Special Events Deployment Policy to reflect the following:
 - a. Update the policy to reflect the revisions contemplated in the LA-RICS Asset Deployment Policy (Enclosure A) to align with current deployment processes and operations for LA-RICS Assets (e.g. System on Wheels [SOW], portable radios, radio accessories, Public Safety Broadband Network [PSBN] devices, etc.) in support of an event.
 - b. Delegate authority to the Executive Director to determine whether a Member and Non-Member of the Authority shall be responsible for costs associated with staff required to support the event as well as other costs that may be necessary to support the event.
 - c. Delegate authority to the Executive Director to execute a Memorandum of Understanding (MOU) for Use of LA-RICS Assets (Enclosure B), substantially similar to the enclosed, when LA-RICS assets are deployed to a Member and Non-Member event, which includes a cost-recovery provision, in the event a Member and Non-Member is responsible for costs associated with supporting the event.
 - d. Delegate authority to the Executive Director to make the determination whether an MOU is required to be executed depending on the nature of the deployment of an event, in particular, (1) whether or not a Member and Non-Member will be responsible for costs associated with supporting the event, and (2) whether a Member and Non-Member will take temporary possession of any LA-RICS assets as part of the event.

Alternate Board Member Geiger motioned first, seconded by Alternate Board Member Bundesen.



Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

I. APPROVE THE LA-RICS CYBERSECURITY INCIDENT RESPONSE POLICY AND ADOPTION OF THE LA-RICS CYBERSECURITY INCIDENT RESPONSE PLAN

Contract Manager Jeanette Arismendez presented to the Board Agenda Item I and requested the Board take the following actions:

1. Approve the enclosed LA-RICS Cybersecurity Incident Response Policy to ensure the Authority has the appropriate measures to respond to any cybersecurity threat to the LMR and/or PSBN Systems.
2. Authorize the Executive Director to implement whatever appropriate procedures and/or plans necessary to carry out the Policy.

Board Member Alexander stated since the document was not attached, he requested staff to provide more details on how this would work. Mr. Pao stated when there is a breach in security, there is a process that needs to be in place to indicate who needs to be notified and what action needs to be taken by all the responsible parties, the Cybersecurity Incident Response Plan set forth the process. Executive Director Edson added that the plan also includes notifications to law enforcement, collection of evidence and everything else required to get back to work without disrupting the investigation. It is also aligns with the County of Los Angeles security policies. Contracts Manager Arismendez stated that the plan can be sent to the Board, but was not attached due to the sensitive and confidential nature of the plan, such that it was not appropriate to attach to a Brown Act meeting. Counsel Moore stated the Board is not taking action to adopt the Cybersecurity Incident Response Plan; the Board is adopting the policy and delegating authority to the Executive Director accordingly. Board Member Alexander asked is if the plan sets forth the levels of authority; a chain of command for who has the authority to shut down the system? Contract Manager Arismendez stated yes. Director Gialamas requested a copy of the policy be sent to the Board/Alternate Members for review.

Alternate Board Member Gialamas motioned first, seconded by Board Member Bundesen.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED



J. MINISTERIAL PERMIT APPLICATION POLICY UPDATE

Contract Manager Jeanette Arismendez presented to the Board Agenda Item J and requested the Board take the following actions:

Approve revisions to the enclosed LA-RICS Ministerial Permit Application Process to expand the Executive Director's authority to approve and sign ministerial applications as well as any other ministerial documents necessary for ongoing operations and maintenance of the LMR and PSBN as well as for jurisdictional approval needed to comply with codes, ordinances, and regulations to enable site construction, implementation, operation, and maintenance of the Land Mobile Radio (LMR) System and the Public Safety Broadband Network (PSBN).

Board Member Alexander asked, if there needs to be a limitation on policy but not a broad limitation more of a limitation that is tied to an appropriation on the approved annual budget. Alternate Board Member Gialamas stated that he agreed with Board Member Alexander, but thought the policy was specific to ministerial permits and applications. Counsel Moore stated anything outside an adopted budget will require authority approval. Counsel Moore read the alternate motion to add a sentence to Section 2.20 of the Policy to clarify the delegated authority be limited to those items that are covered and contained in the adopted budget anything in excess of that will need to be returned to the Board.

Board Member Alexander motioned first, seconded by Alternate Board Member Gialamas.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

K. APPROVE A NO-COST AGREEMENT WITH THE GSMA, LTD.

Contract Manager Jeanette Arismendez presented to the Board Agenda Item K and requested the Board take the following actions:

1. Delegate authority to the Executive Director to execute a no-cost agreement between the Authority and GSMA, in substantially similar form to the Enclosure, to allow the Authority to receive certain database Services, on a gratis basis, for the purposes of tracking LTE devices and their associated network performance on the PSBN for a period of one (1) year from the date of execution.



2. Delegate authority to the Executive Director to approve and execute amendments to the no-cost agreement, including but not limited to renewing the term for successive one (1) year terms on a gratis basis should the Services still be required, provided that any such amendments are approved as to form by Counsel to the Authority.

Director Gialamas asked will this be an annual item before us. Contracts Manager Arismendez stated that it would not recur annually if approved as is. Counsel Moore stated the Executive Director will have the delegated authority to extend each year.

Alternate Board Member Bundesen motioned first, seconded by Alternate Board Member Gialamas.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

L. APPROVE AMENDMENT NO. 30 TO AGREEMENT NO. LA-RICS 007 FOR LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM

Contract Manager Jeanette Arismendez presented to the Board Agenda Item L and requested the Board take the following actions:

1. Make the following findings:
 - a. Find that (a) approval of the changes necessary to reflect the reconciliation of four (4) LMR System Sites (Burnt Peak 1 [BUR1], Frost Peak [FRP], Johnstone Peak 2 [JPK2] and Magic Mountain Link [MML]) to align with the updated LMR System Design is within the scope of the Final Environmental Impact Report (EIR) for the LA-RICS LMR System, which was previously certified under CEQA on March 29, 2016; and (b) there are no changes to the project at these four (4) sites or to the circumstances under which the project is undertaken that require revisions to the previous EIR due to new significant effects or substantial increase in the severity of previously identified significant effects.
 - b. Find that approval of the changes necessary to reflect the reconciliation of three (3) LMR System Sites (Los Angeles County Department of Public Works Pump Station 38 [DPW38], Mirador [MIR], and Rolling Hills Transmit [RHT]) to align with the updated LMR System Design is within the scope of the design, construction,



implementation, operation and maintenance activities for the LMR System previously authorized at these three (3) sites, which your Board previously found statutorily exempt from review under CEQA pursuant to Public Resources Code Section 21080.25, the exemption adopted specifically for the Los Angeles Regional Interoperable Communications System (LA-RICS) project, and any leased circuit work that may occur outside of Sites DPW38, MIR and RHT, if needed to provide network connectivity to the LMR System, categorically exempt under CEQA pursuant to Guidelines section 15301 (existing facilities), 15303 (new construction or conversion of small structures) and 15304 (minor alterations to land).

- c. Find that the inclusion of one (1) LMR System Site (Universal Studios [UNIV]) into Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercising of the Unilateral Options to align with the updated LMR System Design is within the scope of the design, construction, implementation, operation and maintenance activities for the LMR System previously authorized at this one (1) site. The LMR activities at Site UNIV was previously found by your Board to be categorically exempt from review under California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines sections 15301 (existing facilities), 15303 (new construction or conversion of small structures) and 15304 (minor alterations to land), and any leased circuit work that may occur outside of Site UNIV, if needed to provide network connectivity to the LMR System, were previously found by your Board to be categorically exempt under CEQA pursuant to Guidelines sections 15301, 15303 and 15304.
2. Approve Amendment No. 30 (Enclosure) to Agreement No. LA-RICS 007 for a LMR System with Motorola Solutions, Inc. (Motorola), which revises the Agreement to reflect the following:
 - a. Inclusion of one (1) LMR System Site into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercising the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,228,018.
 - b. Reconciliation of seven (7) LMR System Sites to align with the updated LMR System Design for a cost decrease in the amount of \$1,664,767.



- c. Upgrade equipment for the Multiprotocol Label Switching (MPLS) and backhaul capacity necessary for network performance reliability and functionality for a cost increase in the amount of \$2,200,000.
 - d. Make changes necessary to incorporate LMR Change Order Modifications for a cost increase in the amount of \$4,195.
3. Authorize an increase to the Maximum Contract Sum from \$298,264,291 to \$300,031,737 when taking the cost increases and decreases into consideration.
 4. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 30.
 5. Delegate authority to the Executive Director to execute Amendment No. 30, in substantially similar form, to the enclosed Amendment (Enclosure).

Alternate Board Member Bundesen motioned first, seconded by Board Member Chidester.

Ayes 7: Chidester, Ortiz, Alexander, Fronterotta, Geiger, Bundesen and Gialamas.

MOTION APPROVED

IX. MISCELLANEOUS – NONE

X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD

There was none.

XI. CLOSED SESSION REPORT

The Board did not enter into Closed Session.

ADJOURNMENT and NEXT MEETING:

The Board adjourned at 10:11 a.m., and the next meeting is on Thursday, December 7, 2017, at 9:00 a.m., at the Los Angeles Sheriff's Department, Scientific Services Bureau, located at 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.



BOARD OF DIRECTORS SPECIAL MEETING MINUTES

**LOS ANGELES REGIONAL
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY**

December 14, 2017
Los Angeles County Fire Department Headquarters
1320 North Eastern Avenue, Training Room 26
Los Angeles, CA 90063

Board Members Present:

Sachi Hamai, CEO, County of Los Angeles
Daryl L. Osby, Vice-Chair, Fire Chief, County of Los Angeles Fire Dept.
Jim McDonnell, Chair, Sheriff, Los Angeles County Sheriff's Dept.
Joe Ortiz, Chief of Police, City of Sierra Madre Police Dept.
Mark Alexander, City Manager, CA Contract Cities Assoc.
John Curley, Chief of Police, City of Covina Police Dept.

Alternates For Board Members Present:

Brian Leyn, Captain, Signal Hill Police Department
Kay Fruhwirth, Asst. Dir., EMS Agency, County of LADHS
Scott Haberle, Fire Chief, City of Monterey Park Fire Dept.
Louis Perez, Deputy Chief, City of Inglewood Police Dept.

Officers Present:

Scott Edson, LA-RICS Executive Director
Priscilla Lara, LA-RICS Board Secretary

Absent:

Chris Donovan, Fire Chief, City of El Segundo Fire Dept.
Chris Nunley, Captain, City of Signal Hill Police Dept.



NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

I. CALL TO ORDER

Sheriff Jim McDonnell called the Special Meeting of the Board to order at 9:02 a.m.

II. ANNOUNCE QUORUM – Roll Call

Sheriff McDonnell acknowledged that a quorum was present, asked for a roll call and requested a moment of silence in memory of Lieutenant Alex Radovic who spent 32 years with the Los Angeles County Sheriff's Department (LASD) and passed unexpectedly. Sheriff McDonnell further mentioned that Lt. Radovic was also assigned to the LA-RICS Project and was instrumental in getting the Long Term Evolution (LTE) Public Safety Broadband Network (PSBN) sites built and that his absence will certainly leave a big whole in our hearts.

III. APPROVAL OF MINUTES FOR THE REGULAR MEETING

A. The approval of the November 2, 2017 – Regular Meeting Minutes were continued to the next meeting due to a lack of quorum of Board members who were in attendance at the last November Regular Meeting.

IV. PUBLIC COMMENTS – (NONE)

V. CONSENT CALENDAR – (None)

VI. REPORTS (B-D)

B. Director's Report – Scott Edson

Executive Director Edson provided an update for LTE and stated there is an item before you today which is a recommendation to consider and approve an agreement with AT&T, Agenda Items H and I.

In regards to the Land Mobile Radio (LMR) update, Executive Director Edson explained project is on schedule with what he refers to as the 20/20/20/20 plan; 20 sites in 2018, 2019 and 2020, with final testing and acceptance in 2020. We have ten (10) sites complete and four (4) in construction. Project Manager Chris Odenthal will provide more specifics in his LMR report.

Letters have been sent to Cities informing them of the status of our voice LMR build and that we are ready to discuss potential for early users to gain access to the system and possibly upgrade their system while allowing them to test and exercise our



system, especially those agencies who may have some financial constraints. Executive Director explained that he sees this as an opportunity for them to try our system, while we continue to build the network.

In regards to the grant status, Executive Director Edson referred the Board to agenda Item D, explaining funds continue to be managed very well and on track with the current awarded grant performance periods. In addition he reported LA-RICS still has a commitment of funds for UASI 2018-19 although we do not currently have those funds in hand.

Onboarding is going very well with approximately 1,200 devices on the Band 14 Network between the LASD and the Fire Department on the system. Executive Director Edson stated that he is confident if we have an earthquake we are able to respond with enough equipment and users on the network.

Lastly, Executive Director Edson informed the Board the Authority received an informal notification that we will be audited for our Urban Areas Security Initiative (UASI) grant sometime in January. He went on to explain that we don't anticipate any problems as we continue to perform in accordance with the grant requirements and will be ready for their arrival. There were no questions at the conclusion of the report.

C. Project Manager's Report – Chris Odenthal

Project Manager Odenthal stated in the interest of time, he would not be presenting a slide show to the Board. He went on to state as Executive Director Edson mentioned, the Authority has wrapped up ten (10) sites that were initially in the UASI 14 spending plan. There are currently four (4) sites underway and an additional three (3) sites scheduled to start construction in December with a goal to deplete the UASI 13 funds by the March 2018 deadline. The Pomona Courthouse will commence construction in January, which was part of the letter the Authority sent out to the City Managers in terms of the LA-RICS LMR update.

In regards to an LTE update, I will defer the discussion to later in the meeting, as we will have a robust conversation regarding LTE. There were no questions at the conclusion of the report.

D. Joint Operations and Technical Committee Chairs Report – Ted Pao and Kyle Zuniga

Technical Committee Chair, Ted Pao informed the Board the Joint Operations and Technical Committees convened on November 28, 2017; however, there was no quorum on the Operations Committee side due to unexpected absences and asked the Board to assist with appointing individuals who can commit attendance as there are a number of policy items to address in the upcoming months. Chair McDonnell



asked Technical Committee Chair Pao to provide him with a list of the committee members off the record so that he can assist with ensuring the Committees have future quorums.

Mr. Pao went on to state Eileen Healy, our Televate Broadband Engineering Consultant briefed the committee attendees on the LTE status. Technical Committee Chair Pao informed the Board of status of the PSBN Data Warehouse. Explaining its benefits such as the ability to look at system performance, site statistics and usage and we are able to run key performance index reports on our system as well as reviewing user usage. He went on to explain the Security Work Group has been established and we have a cyber security incident response plan and are currently working on security policies. Discussions with AT&T continue regarding technical transitioning of current users to FirstNet. The PSBN onboarding continues as referenced in the Onboarding Update Memo.

Lastly, Technical Committee Chair Pao stated since Project Manager Odenthal provided an update on LMR deployment he would not go into details but explained that we are on track with the LMR deployment, with a number of agencies that have expressed interest in migrating to the LA-RICS system prior to System Acceptance, as they need to upgrade or invest additional resources into their current systems. The Authority is in the process of forming a work group to discuss the items and tasks required in order for agencies to be able to transition to the LA-RICS LMR System. We will report to your Board when we have findings and recommendations for your approval.

Chair McDonnell requested Technical Committee Chair Pao provide him with the requested information to assist with ensuring that there is a quorum for future meetings. Board Member Alexander asked if lack of quorum is a recurring problem. Technical Committee Chair Pao stated it is not but we have a lot of important items to discuss. There was no further discussion or questions.

VII. DISCUSSION ITEMS (E-G)

E. Outreach Update

There was no discussion.

F. PSBN Onboarding Update

There was no discussion.

G. LA-RICS Policies



There was no discussion.

VIII. ADMINISTRATIVE MATTERS (H-K)

H. APPROVE ENTERING INTO AN ASSET TRANSFER AGREEMENT WITH AT&T CORP.

Executive Director Edson asked that your Board:

1. Delegate authority to the Chair of the LA-RICS Board, or his designee, to execute an Asset Transfer Agreement, in substantially similar form to Enclosure 1 (Asset Transfer Agreement), between the Authority and AT&T to allow the Authority to transfer and assign its 20% right, title, and interest in the initial BTOP grant-funded buildout of the LA-RICS PSBN, in particular, BTOP grant funded equipment deployed at seventy-five (75) public safety grade PSBN sites, including thirteen (13) Cell-on-Wheels (COW) sites, as well as spare equipment, for use as part of the FirstNet NPSBN. The Asset Transfer Agreement is subject to final approval from NTIA and the NOAA Grants Office.
2. Delegate authority to the Executive Director to approve and execute amendments to the Asset Transfer Agreement that update or revise the schedules attached to the Agreement, as may be necessary, provided that any such amendments are approved as to form by Counsel to the Authority.

Executive Director Edson provided historical background information and stated that LA-RICS was formed and received the Broadband Technology Opportunities Program (BTOP) grant in 2010 designated to build a public safety grade network and began discussions on the technical design of the network. In 2012, FirstNet was established by law, and we took a pause while the spectrum manager lease agreement was negotiated and finalized, and then issued an RFP for deployment of the PSBN, with FirstNet approving the design specs and build out of our Network. In 2016, FirstNet issued a Request for Proposals (RFP) with 16 different objectives, not with specific functional requirements but more of an objective based RFP and ultimately chose AT&T in March 30, 2017. The difference between our network and the FirstNet solution is they took into consideration providing priority preemption and quality of service immediately on their existing commercial network instead of waiting multiple years to build a public safety grade network. However FirstNet did give the vendor an ability to reinforce some sites and possibly build new sites to augment their existing network, while LA-RICS built their sites up front.

Executive Director Edson went on to state LA-RICS engaged in discussions with AT&T and we have what we believe to be a fair proposal on the table. In essence, AT&T will assume the LA-RICS PSBN, will be upgrading some of the equipment, and



will incur expenses associated with the transition to be paid for by AT&T, resulting in the complete transition of our network into the National Public Safety Broadband Network (NPSBN). AT&T has assured us they can absorb our network without turning off the system and while minimizing down time to our users. We are working closely with AT&T to provide a technical transition plan that we are satisfied with while standing firm on our request for a Public Safety Grade System as well as other benefits for the region's investment such as replacement SIM cards for existing PSBN routers/devices, etc.

CEO Sachi Hamai asked for the meaning of Public Safety Grade. Executive Director Edson stated that Public Safety Grade encompasses three specific items; 1) construction which includes antenna support structures that meet TIA 222 Class 3, Rev G, 2) network redundancy and 3) power redundancy. Project Manager Odenthal added that the Rev G standards include seismic factoring which make the towers stronger than those which were built under previous building codes. The microwave back haul requires two ways in and out of every site, which allows the site to remain online and connected.

Executive Director Edson informed the Board the Authority received media request for comments once our agenda was posted online. We also received a link to a media release from Rivada. We believe our proposal with AT&T is valued at approximately \$17 to \$18 million dollars. Rivada made a statement in an article that if the State of California were to opt-out, and if the State were to select Rivada they would give LA-RICS \$25 million dollars to absorb the entire PSBN. I'm part of the California FirstNet (CalFRN) Board and I inquired if we would have any visibility into the responses received by the State for their RFP, and we did not know of Rivada's offer or the details of such offer. I was informed the CalFRN Board serves in an advisory capacity and we are not a part of California's procurement so we would not have purview to what the State decision would be. We don't know any of the details as far as who has responded to the state's RFP, however, we know that Verizon did not submit an RFP response.

Counsel Truc Moore than summarized the Asset Transfer and Business Agreement with AT&T by highlighting certain deal points to the Board. The most important part of the agreement is the actual asset transfer of the BTOP funded equipment. The deal contemplates LA-RICS' 20% interest in the equipment at the 75 sites that were paid for with BTOP grant funds would transfer to AT&T. The transfer is premised on the fact the items will be used as part of the National PSBN under FirstNet. The deal is structured so the Federal government through National Telecommunications and Information Administration (NTIA), the Department of Commerce and National Oceanic and Atmospheric Administration (NOAA) has to approve the deal as they hold 80% of the interest in the equipment. The approval of the agreement before you today would actually be the first of a series of approvals needed for this Federal asset to be



transferred to AT&T. The second part of the deal, if approved, contemplates the asset becoming a part of NPSBN, and the Authority will no longer need maintenance from Motorola Solutions, Inc. (Motorola) because AT&T will be required to operate our network effective July 1st of 2018. If approval is achieved and the cutover takes place correctly, AT&T will assume the network cost and this will allow for a cost savings of approximately \$3 million dollars a year to LA-RICS.

Counsel Moore additionally stated and thanked CEO Sachi for asking the question about the Public Safety Grade aspect of our sites. Counsel Moore went on to explain this subject was the most negotiated aspect of all of our discussions and negotiations with AT&T, but we believe we prevailed on AT&T the importance of Public Safety Grade of our sites and have structured our agreement to allow for them to assume all of our sites if access is reasonably granted, and if they ever need to decommission a site for whatever reason, they have to demonstrate whatever sites they are replacing our site with meets the three elements of public safety criteria which is backhaul, backup power and structural integrity, and we have included in our schedule for each of our sites the Rev G standards in our agreement. For the first five (5) years AT&T has to keep all sites and show site for site replacement, if any, meeting the requirements in the Asset Transfer Agreement; at year six (6) they can decommission up to 25% of the remaining sites but have to appear before your Board beforehand and present why they want to decommission a site and after year 10 the requirement to check with us ends.

This deal is also structured to include the approval of our Round 2 PSBN plan. As this Board is aware, we still have \$34 to \$35 million in our BTOP grant appropriation. The Federal government has not permitted us to move forward with construction of sites because they wanted to ensure that any new sites will be used effectively in the NPSBN network. If they sign off, the Authority will work with AT&T to make sure it will deliver the coverage needed and will be Public Safety Grade and form part of the NPSBN.

The consideration that we will receive as part of this agreement is \$12 million dollars that will be broken into 3 payments, the first will be 30 days following the closing date of \$6 million, and two subsequent payments of \$3 million dollars as we complete portions of Round 2. The agreement also contemplates a one for one replacement of routers and devices purchased, this includes LA-RICS and its member agencies. We will also receive up to \$2.5 million in additional funds from AT&T for replacement of the devices purchased and installed by the Authority and its Members. The total consideration of the deal is approximately \$17.5 to \$18 million dollars.

This deal is structured on a number of conditions occurring. The first condition is that the State of California opts-in to the NPSBN. The second is the Federal government approving the deal and approving Round 2 of the Plan.



Lastly, due to the fact that this is an Asset Transfer Agreement, the parties negotiated limitations on liabilities and various warranties language. This is overall the agreement before you for consideration today.

Chair McDonnell asked if the approval of the agreement requires dividing the approval of a couple of motions. Counsel Moore stated that yes, we need a motion for Agenda Item H and then a subsequent motion for Agenda Item I.

Board Member Alexander asked about the proceeds from this transfer, and if staff has identified what we plan to do with the funds. Administrative Chief Susy Orellana-Curtiss stated that once the Federal government approves the transfer of assets, we will return to your Board with a recommendation. CEO Hamai went on record by stating with the return of funds, it is her expectation the Finance Committee will look at the future cost model to our other partner agencies and take into consideration a return of some funds to the County of Los Angeles since we have invested quite a bit of funds.

CEO Hamai asked Counsel Moore about the additional sites in Round 2, and whether those additional sites be at Public Safety Grade as well. Counsel Moore stated that is correct, and based on the costs of estimated funding for Round 2, we have already included in the costs the for the 26 additional sites, the Public Safety Grade elements. CEO Hamai thanked Executive Director Edson and Counsel Moore and the rest of the team on working hard and negotiating a deal that will be very instrumental to the citizens of Los Angeles County.

Executive Director Edson added that many of the new sites will be in the Santa Monica Mountains and the Angeles National Forest to allow broadband to the Fire trucks and Police in the mountains.

Board Member Curley asked if this agreement will affect compatibility for San Gabriel Valley users as it relates to their recent purchase of dispatch consoles. Executive Director Edson stated that this agreement will have no effect on those purchases since it is a 100% data agreement.

Board Member Hamai motioned first, seconded by Alternate Board Member Kay Fruhwirth.

Ayes: Hamai, Osby, McDonnell, Ortiz, Alexander, Curley, Fruhwirth, Haberle, Perez and Leyn.

MOTION APPROVED

I. APPROVE ENTERING INTO A BUSINESS AGREEMENT WITH AT&T CORP.



Executive Director Edson asked that your Board:

Delegate authority to the Chair of the LA-RICS Board, or his designee, to execute a Business Agreement, in combination with the Asset Transfer Agreement, and in substantially similar form to Enclosure 1 (Business Agreement), between the Authority and AT&T to allow the Authority to accept \$12 million; up to 3,300 replacement routers, SIMs, and devices, of the Authority's choosing, should the current routers, SIMs and devices used by the Authority and PSBN users be incompatible with or not fully compatible with the FirstNet NPSBN; and \$2.5 million in services to pay for replacement services and installation of any routers and SIMS that have to be replaced.

Board Member Hamai motioned first, seconded by Alternate Board Member Leyn.

Ayes: Hamai, Osby, McDonnell, Ortiz, Alexander, Curley, Fruhwirth, Haberle, Perez and Leyn.

MOTION APPROVED

Executive Director Edson asked Chair McDonnell if he could take a moment to introduce our potential partner representatives from AT&T Jeff Bryant. Mr. Bryant thanked the LA-RICS team and stated that Los Angeles, FirstNet, California will benefit from this partnership for the next 25 years.

Executive Director Edson also thanked Sheriff McDonnell, Fire Chief Osby and CEO Hamai for their commitment to this process.

Board Member Osby acknowledged the great work and stated that this is a big day for Public Safety.

Chair McDonnell stated this is a huge milestone for Public Safety.

J. REQUEST TO ORDER CALNET 3 SERVICES

Administrative Chief Orellana-Curtiss asked that your Board:

1. Delegate authority to the Executive Director or his designee to execute an Authorization to Order (ATO), which is substantially similar in form to Enclosure 1, with CalNet 3 contractors such as AT&T Corporation.
2. Delegate authority to the Executive Director or his designee to request the actual service from a CALNET 3 contractor by submitting a Telecommunications Service



Request (Form 20), which is substantially similar in form to Enclosure 2, to the State of California Department of Technology to order backhaul services to support the upcoming 2018 Tournament of Roses Parade for a not-to-exceed amount of \$2,500.

3. Delegate authority to the Executive Director, or his designee, to request services from CALNET 3 contractor(s) via the State's CALNET 3 contract, to support future Public Safety Broadband Network (PSBN) deployments, that do not exceed \$20,000 and is in accordance with amounts covered by the annual adopted Operating Budget. The Executive Director will report back quarterly to the Board on all amounts spent under this delegated authority in the prior quarter.

Alternate Board Member Fruhwirth motioned first, seconded by Board Member Osby.

Ayes: Hamai, Osby, McDonnell, Ortiz, Alexander, Curley, Fruhwirth, Haberle, Perez and Leyn.

MOTION APPROVED

K. ACCEPT 2016 URBAN AREAS SECURITY INITIATIVE FUNDS

Administrative Chief Orellana-Curtis asked that your Board:

1. Accept \$5,240,455 in grant funds from the Fiscal-Year 2016 UASI funds as distributed through the California Office of Emergency Services (Cal OES); and
2. Authorize the Executive Director to execute the attached 2016 UASI Sub-recipient Agreement between the City of Los Angeles and the Authority; and
3. Delegate authority to the Executive Director to execute any subsequent amendments to the Agreement that do not impact the award amount.

Board Member Alexander motioned first, seconded by Board Member Ortiz.

Ayes: Hamai, Osby, McDonnell, Ortiz, Alexander, Curley, Fruhwirth, Haberle, Perez and Leyn.

MOTION APPROVED

IX. MISCELLANEOUS – NONE



X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD

There was none.

XI. CLOSED SESSION REPORT

The Board did not enter into Closed Session.

ADJOURNMENT and NEXT MEETING:

The Board adjourned at 9:34 a.m., and the next meeting is on Thursday, January 11, 2018, at 9:00 a.m., at the Los Angeles Sheriff's Department, Scientific Services Bureau, located at 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.

Executive Summary

January 11, 2018

LTE Update

Below are the remaining activities associated with PSBN

- SCE COW completion – Backhaul connectivity is the final outstanding issue primarily focused on the SCE fiber ring and is expected to complete in February 18’.
- The LA-RICS LTE network is built to “public safety grade” based on requirements gathered by the FirstNet Public Safety Advisory Committee (PSAC) and with significant input from the National Public Safety Telecommunications Council (NPSTC).
- LA-RICS LTE Network is the largest continuously operating Band 14 network and it has served as a great test bed for FirstNet and AT&T; specifically when it comes to roaming between the networks, interoperability, credentialing, provisioning. We continue to offer our knowledge and expertise to the State, FirstNet and AT&T during this plan review and discussions. During a recent event at The Rose Bowl in Pasadena, CA. The LARICS technical team gathered critical data for both ATT/VZW priority as well as the LA-RICS PSBN. This information has proven to be very helpful in understanding the full potential of the PSBN Network for public safety, as well as better understanding how other networks perform during high traffic events.

LMR Update

- Zoning Drawing – 15 Sites, 10 of which are approved to proceed to 50% Level Drawings.
- 50% Construction Drawings – 18 Sites, 14 of which are in development for 75% Level Drawings.
- 75% Construction Drawings – 1 Site and is approved to proceed to 100%.
- 100% Construction Drawings (Reviewing for Building Permit Submittal) – 5 sites, 4 of which have been submitted for Building Permit review and are in that process.
- Building Permit Received – 17 Sites.
- Sites Eligible to Construct: (Includes Completed Sites, Sites Under Construction and/or Equipment Installs & Locations).
 - APC – Junction of I-105 and I-405
 - BMT – Angeles, overlooking CA-138 and I-5
 - CCB – Compton
 - CCT – Downtown
 - CLM – Claremont *Not yet under construction*
 - FCCF – 1320 Eastern Ave
 - HPK – Northern Angeles, overlooking Palmdale
 - LDWP243 – Junction of I-5 and CA-14
 - LASDTEM – Temple City
 - LA-RICS HQ, - Monterey Park *Not yet under construction*
 - PHN – Puente Hills
 - MLM – Mira Loma Detention Center
 - MVS – Whittier
 - ONK – Oat Nike
 - PLM – Palmdale
 - TPK – Gorman
 - MMC - West Mtn. Way Palmdale
- Sites Complete through Phase 2 (constructions and modification complete) = 10

LA-RICS GRANT STATUS

Grant	Award	Costs Incurred/NT P Issued	Invoiced / Paid	Remaining Balance	Performance Period
UASI 12	\$18,263,579	\$18,263,579	\$18,263,579	\$-	3/31/17
UASI 13	\$13,744,067	\$13,564,776	\$-	\$179,291	3/31/18
UASI 14	\$4,997,544	\$4,997,544	\$4,997,544	\$-	7/31/17
UASI 16	\$5,240,456	\$4,337,822	\$-	\$902,634	5/31/19
UASI 17	\$34,763,780	\$-	\$-	\$-	Not yet awarded
UASI 18	\$35,000,000	\$-	\$-	\$-	Not yet awarded
UASI 19	\$35,000,000	\$-	\$-	\$-	Not yet awarded
BTOP	\$120,117,137	\$-	\$112,637,292	\$7,479,845	9/30/20

STATUS OF PSBN AGENCY ONBOARDING

Agency	Onboarding Status	Number of Units Installed/Demo Kit/SIM cards Received
LASD	Installations in progress.	893
LACoFD	Installations in progress.	430
Inglewood PD	Router installations underway. APN complete.	8
Claremont PD	Two routers in use.	2
Bell PD	Meeting scheduled for 1/10/18 to discuss the purchase of consoles and radios.	2
Covina PD	Two routers being installed in new vehicles.	2
UCLA Health	Mobile Stroke Unit in operation.	1
Health Services / EMS	Used portable PSBN kits at the West Hollywood NYE event as back up.	2
El Segundo Fire & PD	ELFD installing two routers.	2
Signal Hill PD	Pending response from AT&T regarding the type of router they are willing to provide.	0
La Verne PD & FD	Pending Installation of 2 routers.	0
Azusa PD	No longer interested in Demo Kit.	0
Irwindale	Irwindale PD investigating their preparedness to install two routers.	0
Sierra Madre PD & FD	Elected to postpone their decision to accept LA-RICS routers pending California's decision on FirstNet opt-in.	2

Los Angeles Regional Interoperable Communications System

PROJECT DESCRIPTION

Events of September 11, 2001 highlighted the need for first responders to be able to communicate with each other. Emergency communications primarily address local jurisdictional needs and most agencies utilize separate radio towers, equipment, and radio frequencies. LA-RICS is designed to address each of these concerns.

Currently, there is duplication of costs and first responders cannot communicate with each other. Many legacy systems around the County are obsolete and well beyond their useful life. The LA-RICS Project vision is to provide innovative solutions for the public safety community by removing barriers to interoperable voice and data communications and allow individuals and agencies to focus on accomplishing their mission with the tools necessary to provide excellent service to their communities. To accomplish this vision, the program will establish a County-wide public safety wireless voice and data radio system for all first and secondary responders. Existing radio frequencies will be pooled and the current infrastructure utilized wherever practical. New FCC licensed broadband spectrum will be utilized.

Design, construction, and deployment of two County-wide systems (1) Land Mobile Radio (LMR) voice network utilizes 61 sites in its System Design and (2) Long Term Evolution (LTE) broadband data network is deployed at 76 sites. Both systems comply with CEQA and NEPA standards.

Project and Construction Management Services will provide network, infrastructure, project, and advisory services across four of the five program phases (Phase 5 – Maintenance is excluded) for each of the LMR and LTE projects:

- Phase 1 - System design
- Phase 2 - Site construction and modification
- Phase 3 - Supply telecommunication system components
- Phase 4 - Telecommunications system implementation
- Phase 5 - Telecommunications system maintenance

Location:

2525 Corporate Place, Suite 100
Monterey Park, CA 91754

Authority:

Los Angeles Regional Interoperable
Communications System

Management:

LA-RICS Project Team

Consultant:

Jacobs Program Management Company

Communications Vendor:

LMR - Motorola Solutions, Inc.
LTE - Motorola Solutions, Inc.



Monthly Report No. 69

For December 2017

Submitted December 27, 2017

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LTE-1 UPDATES

Site/Civil/Closeout

- The remaining nine (9) SCE COW's are now construction complete. The SCE engineers have completed the fiber ring testing for all 9 COW's. SCE has delivered to the Authority IP certificates for all 9 COW sites providing the final step moving forward to completing the fiber hand off to LARICS. MSI has continued to prepare for end to end testing and final commissioning and integration of all nine (9) sites scheduled for completion by Mid-January. The Authority was successful in correcting the fiber routing issue at 1100 Eastern providing a contiguous path from each site to the Core.
- The Office of The Statewide Health and Planning Department (OSHPD) issued the permit to MSI and their contractor earlier this year. The Authority has received the method of procedure (MOP) which is currently under review and comment from the LARICS construction manager and operations team. The scope of work (SOW) or redesign of the two (2) sectors of antennas including coax and cable trays is to provide a more efficient use of the roof top at the hospital. Construction for this re-design is expected to start Q1 of 2018.

PSBN OnBoarding

- Active engagement is ongoing with an emphasis on connecting agencies applications through a private Access Point Name (APN) replacing the use of the generic LA-RICS APN. Initial configurations were completed for Claremont and UCLA Health, while Inglewood and Bell Police other Departments remain in progress. Other activities for interested agencies continue emphasizing on demonstrations providing test demo kits and technical coordination meetings with the participation of the Los Angeles County Sheriff's Department (LASD) and the County of Los Angeles Fire Department (LACoFD). As of December 2017 all onboarding of new agencies have been placed on hold awaiting the Governors decision to either opt in or out of the First Net (FN) ATT LTE NPSBN program.

Operations/Governance

The LA-RICs Operations team is holding meetings three (3) times a week to focus on the following:

1. Manage and Govern MSI
2. Ensure PSBN operational performance
3. Ensure internal LA-RICS operational aspects are in place
4. Develop and Implement Policies
5. Govern Change Management

The weekly Operations meetings are scheduled as follows:

- **Tuesdays - Network Fault and Performance:** (Joint LA-RICs and MSI meeting) The session provides updates and resolutions for Network deficiencies, trouble tickets including system alarms occurring throughout the Radio Access Network (RAN) as well as the Core. This one (1) hour meeting focuses on reviewing and examining all incidents identified during the past week that affect and determine Service Level Agreements (SLAs) and KPIs. Areas of operational performance governance include trouble identification, sectionalization, resolution including processes and activities MSI could improve to effectively manage the network.
- **Wednesday - Internal Operations Meeting:** This internal meeting encompasses a pool of objectives formulated to address internal functional and resource structures, assignments, process and procedures as well as strategies to govern MSI and work through their deficiencies. Included are progress reports on daily functions, change management as well as updates on assigned action items.
- **Thursday - Process Improvements, Policy and Governance:** The team (Joint LA-RICS and MSI meeting) meets once a week to discuss Governance and resources focused on improving MSI processes specifically targeted towards alarms, trouble ticketing including Radio Access Network (RAN) and Core upgrades and functionality.

Special Events

The current events the team is focused on the New Year's day parade located in Pasadena (Rose Parade).

A host of activities play an important role allowing the techs and engineers to monitor and better target areas within the system for quality assurance providing first responders the highest quality service through the LTE PSBN.

Current preparations and activities:

• Testing

- ◇ ATT – Priority
- ◇ 75 phones
- ◇ 25 Routers
- ◇ ATT Sims (LASD connections only)
- ◇ Verizon Sims and Mobile cards
- ◇ Initial Test for POD-Runner (LTE Mobile site)

• Devices

- ◇ Antennas for testing
- ◇ Camera/video placement
- ◇ Testing scenarios
 - ◆ Video comparison
 - ◆ UL & DL

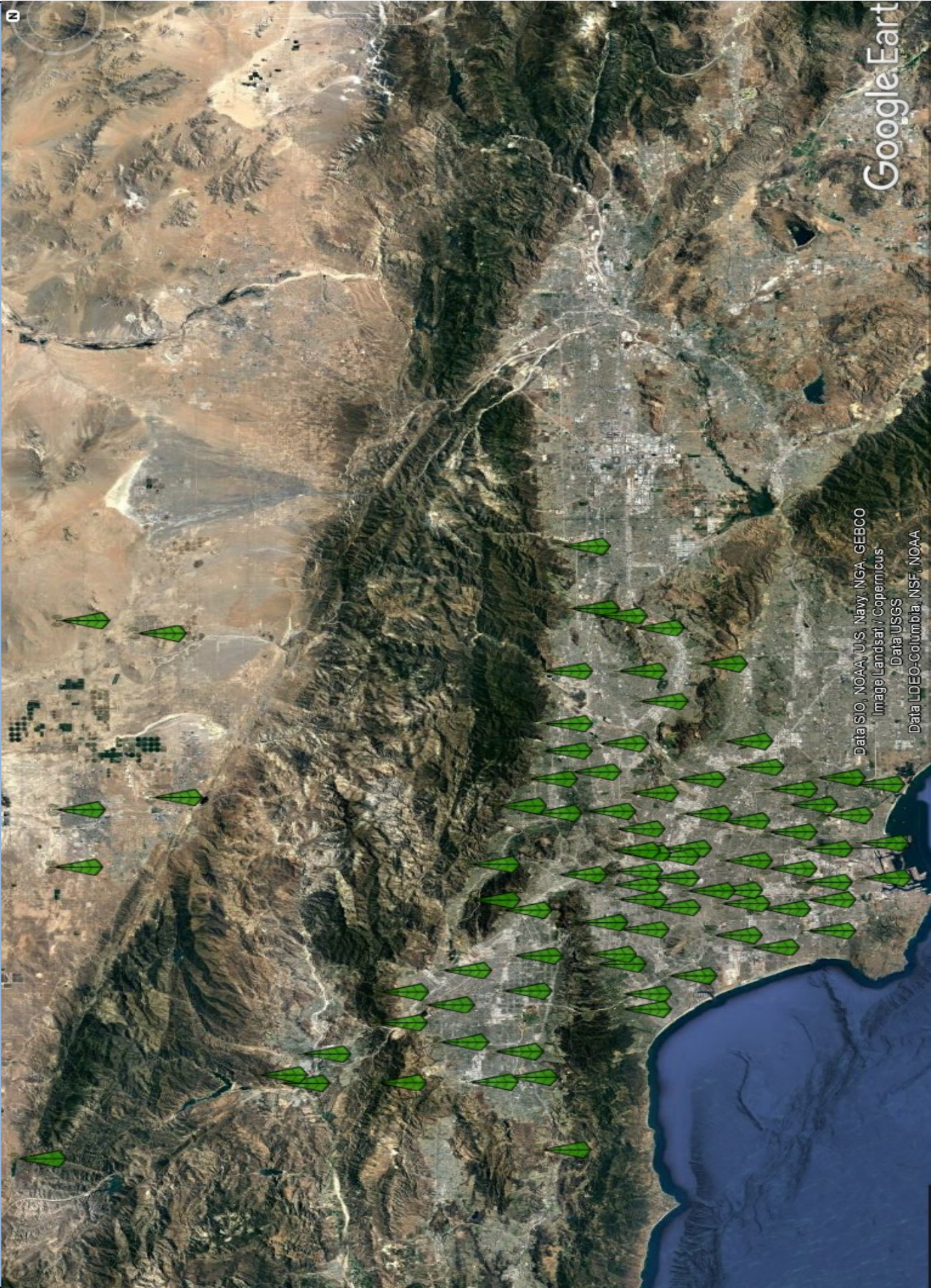
As the Halloween Parade was considered a success, all data collected during the event will be reviewed by the LARICS operations and technical team in the coming weeks. The Priority service from by both ATT and Verizon prove to bring the added service to Public Safety but requires further testing as well, which we hope to obtain during the Rose Parade.

LTE 2 Updates

Discussions between LARICS and ATT have begun with the possibility of resurrecting the PSBN program. At this time both parties are reviewing locations fifty seven (57) including LMR sites which could play a primary role in the site selection process. The proposed added sites placed throughout the greater Los Angeles area would provide additional reliability to the public safety community. The Governor of California is expected to make the final decision by the end of the year to either opt-in or out of the First Net (FN) program. If all goes as planned LTE-2 could move forward without delay by Q2 of 2018.

AGENDA ITEM D

LTE-1 SITES



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus
Data USGS
Data LDEO-Columbia, NSF, NOAA

Google Earth

LMR UPDATES

Environmental Update

- Attended a project status teleconference with FEMA and CalOES on December 11.
- Attended a meeting with the USFS on December 6 at the Angeles National Forest headquarters in Arcadia to discuss proposed tower heights.
- Continued to review Pyramid's and FCS's pre-construction forms and weekly and daily compliance reports
- Continued visits to LMR sites.
- Submitted regulatory letter for polygon changes at Site SGH to SHPO on November 27.
- Prepared draft consultation letters for polygon change at Site RIH for the internal Authority review on November 17
- Started drafting supporting documentation for project change at Site RIH for eventual submittal to FEMA.
- Continued preparation of the Initial Study for Site INDWT.

Permitting Support

- Jacobs continues to review MSI's work and meet weekly with MSI to support MSI's developing and adhering to a P6 schedule for individual coastal development permit (CDP) submittal packages for sites included in the Santa Catalina Island, Santa Monica Mountains, and City of Malibu Local Coastal Plans (LCPs). This effort includes review of MSI-submitted zoning and construction parameters (e.g., proposed tower heights and other site design features) to verify these are consistent with Authority requirements and compliant with each applicable LCP, and directing MSI to modify design drawings as appropriate to meet program needs.
- Jacobs continues to drive the submittal of the Proposal and SF 299 special use permit (SUP) application packages for proposed construction and operations of LMR sites on the ANF. Jacobs continues to meet weekly with MSI to drive MSI in completing an LMR system design compliant with the ANF's Land Management Plan that meets system needs and is working with MSI in developing a P6 schedule associated with successful Proposal and SUP submissions. Under the temporary SUP, the geotechnical investigation for the USFS sites has been completed and radio spectrum fingerprinting-noise floor modeling studies are pending. Jacobs and Authority staff continue to meet with key ANF staff on a twice-monthly basis.

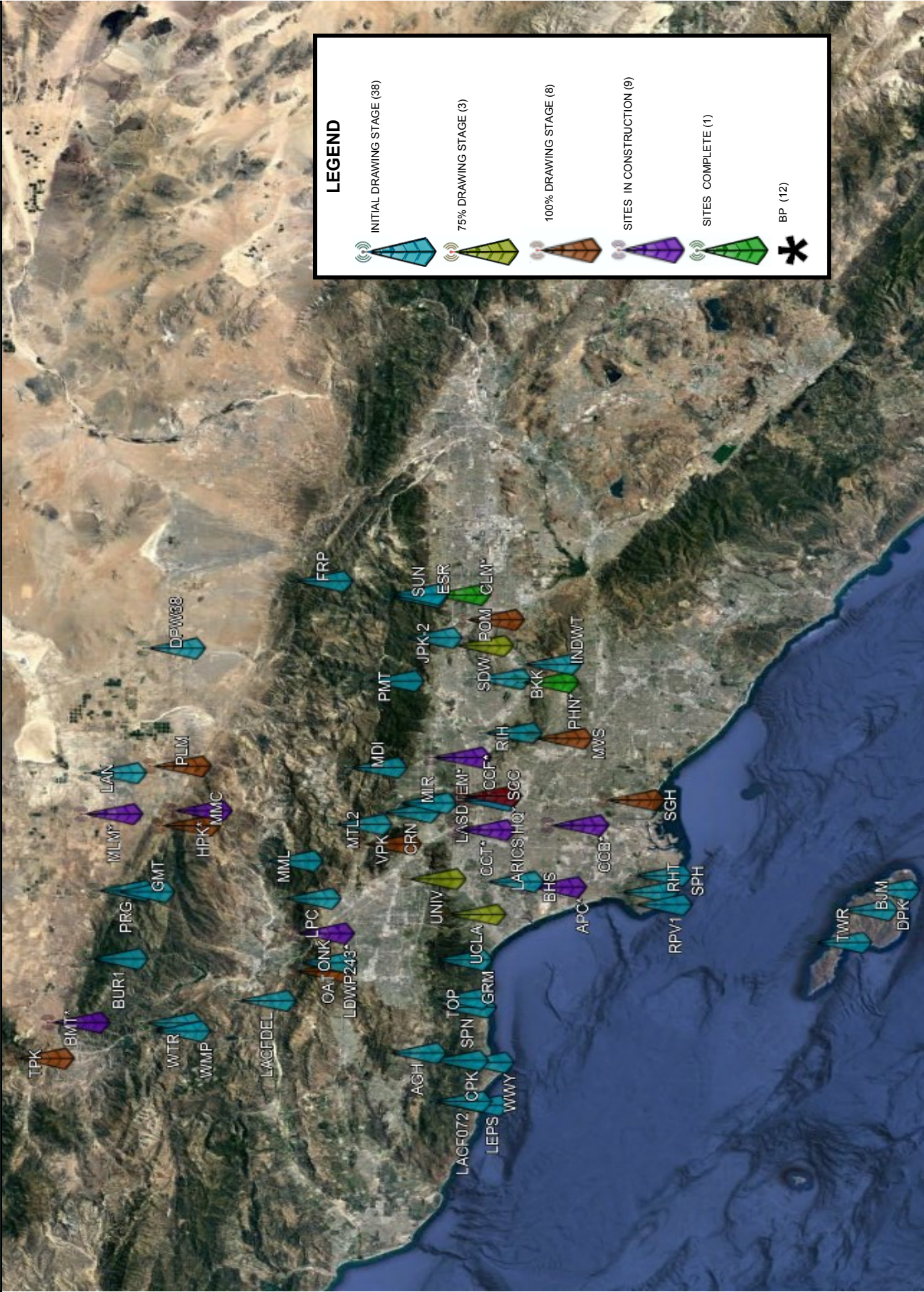
Budget

- Jacobs and MSI are currently working through contractual True-up for all remaining sites Phases 2-4.

Site/Civil

- Construction efforts have been completed on a handful of LMR sites including stacking of towers, concrete foundations for both shelters and generators, building of rooms in Courthouse penthouses and the installation of lines and antennas on numerous sites. Other permit reviews recently completed by the local jurisdiction or the State have yielded additional permits allowing those sites to begin Phase 2 (Construction) as well keeping site progress on schedule. As indicated below, a group of site construction drawings are being reviewed and approved on a weekly basis providing the required pool of sites for future submittals and permits.
- The LMR Radio Frequency (RF) System Design is on-going and at times very dynamic with updates and changes supporting the network microwave design. The base RF Voice layers are complete from a design perspective although there may be tweaks to individual sites based on tower heights. MSI initial review of the Backhaul design including all field path studies have been completed except for San Pedro Hill (SPH). All gathered data is currently under review by MSI engineers. MSI and the Authority met to review findings and any lingering issues. Several sites are still under consideration for exact location due to backhaul availability.
- MSI efforts to complete drawings and submit sites into the jurisdiction for building permits are on-going. Twenty (20) building permit applications (PHN, BMT, HPK, LDWP243, LASDTEM, FCCF, APC, CCB, CCT, PLM, MLM, MVS, ONK, LARICSHQ, CLM, MMC, TPK, VPK, POM and SDW) have been submitted and approvals have been received for sixteen (16) of the twenty sites. Below is an update of the remaining LMR sites and the status or phase of which the drawings are in. As of 12/27/2017 sixteen LMR Building Permit Applications have been approved and construction is underway on fifteen sites.
- 22 each 100% CD's have been received for review and approval by the authority as of 12/27/2017 of which 20 of them have been submitted to respective jurisdictional agencies for review and Building Permit issuance.
- The proposed LMR Rio Hondo (RIH) site at Puente Hills Landfill has been relocated outside the LA County lease area and LA-RICS will be negotiating a Site Access Agreement (SAA) directly with LA County Sanitation District 18. With the addition of RIH, Jacobs is now tasked with obtaining SAA's for 18 LMR sites. SAA's for the remainder sites are being processed by LA County CEO-RED.
- As of 12/27/2017 twenty six (26) executed SAA's are in place.

LMR SITES



LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Timeline											
							2016	2017	2018	2019	2020	2021	2022					
Total		2021	1285	36.42%	09-Nov-15 A	22-Nov-22												
LA-RICS LMR Mirador_MIR		807	282	65.06%	16-Nov-15 A	17-Jan-19												
Phase 1 - Mirador_MIR - System Design		699	150	78.54%	16-Nov-15 A	17-Jul-18												
Phase 2 - Mirador_MIR - Site Construction and Modification		157	157	0%	21-Mar-18	25-Oct-18												
Phase 3 - Mirador_MIR - Supply LMR System Components		227	227	0%	18-Dec-17	01-Nov-18												
Phase 4a - Mirador_MIR - Site Installation		80	80	0%	28-Sep-18	17-Jan-19												
LA-RICS LMR Airport Court House_APC		676	164	75.74%	03-Dec-15 A	06-Aug-18												
Phase 1 - Airport Court House_APC - System Design		288	0	100%	03-Dec-15 A	27-Jan-17												
Phase 2 - Airport Court House_APC - Site Construction and Modification		240	21	91.25%	09-Feb-17 A	17-Jan-18												
Phase 3 - Airport Court House_APC - Supply LMR System Components		320	16	95%	03-Oct-16 A	10-Jan-18												
Phase 4a - Airport Court House_APC - Site Installation		335	26	92.24%	14-Apr-17 A	06-Aug-18												
LA-RICS LMR Agoura Hills_AGH		986	250	74.65%	03-Dec-15 A	04-Dec-18												
Phase 1 - Agoura Hills_AGH - System Design		841	105	87.51%	03-Dec-15 A	15-May-18												
Phase 2 - Agoura Hills_AGH - Site Construction and Modification		457	157	65.65%	20-Dec-16 A	04-Oct-18												
Phase 3 - Agoura Hills_AGH - Supply LMR System Components		268	16	94.03%	16-Dec-16 A	10-Jan-18												
Phase 4a - Agoura Hills_AGH - Site Installation		131	131	0%	05-Jun-18	04-Dec-18												
LA-RICS LMR Burnt Peak 1_BUR1		1209	473	60.88%	03-Dec-15 A	11-Oct-19												
Phase 1 - Burnt Peak 1_BUR1 - System Design		1074	338	68.53%	03-Dec-15 A	05-Apr-19												
Phase 2 - Burnt Peak 1_BUR1 - Site Construction and Modification		308	308	0%	07-Jun-18	12-Aug-19												
Phase 3 - Burnt Peak 1_BUR1 - Supply LMR System Components		416	416	0%	18-Dec-17	24-Jul-19												
Phase 4a - Burnt Peak 1_BUR1 - Site Installation		83	83	0%	19-Jun-19	11-Oct-19												
LA-RICS LMR UCLA_UCLA		927	191	79.4%	03-Dec-15 A	12-Sep-18												
Phase 1 - UCLA_UCLA - System Design		798	62	92.23%	03-Dec-15 A	15-Mar-18												
Phase 2 - UCLA_UCLA - Site Construction and Modification		161	97	39.75%	21-Sep-17 A	18-May-18												
Phase 3 - UCLA_UCLA - Supply LMR System Components		139	139	0%	18-Dec-17	02-Jul-18												
Phase 4a - UCLA_UCLA - Site Installation		77	77	0%	29-May-18	12-Sep-18												
LA-RICS LMR System Implementation		1607	1285	20.04%	07-Sep-16 A	22-Nov-22												
Phase 4b - LMR System Implementation		1607	1285	20.04%	07-Sep-16 A	22-Nov-22												
LA-RICS LMR Milestone Schedules		1815	1285	29.2%	09-Nov-15 A	22-Nov-22												
LMR Intermediate Milestones		1815	1285	29.2%	09-Nov-15 A	22-Nov-22												
LA-RICS LMR Frost Peak_FRP		1214	478	60.63%	03-Dec-15 A	18-Oct-19												
Phase 1 - Frost Peak_FRP - System Design		1079	343	68.21%	03-Dec-15 A	12-Apr-19												
Phase 2 - Frost Peak_FRP - Site Construction and Modification		333	333	0%	10-May-18	19-Aug-19												



LMR Site Schedules

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Summary

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Year																				
							2016	2017	2018	2019	2020	2021	2022														
Phase 3 - Frost Peak_FRP - Supply LMR System Components																											
Phase 4a - Frost Peak_FRP - Site Installation																											
LA-RICS LMR Grass Mountain_GMT																											
Phase 1 - Grass Mountain_GMT - System Design																											
Phase 2 - Grass Mountain_GMT - Site Construction and Modification																											
Phase 3 - Grass Mountain_GMT - Supply LMR System Components																											
Phase 4a - Grass Mountain_GMT - Site Installation																											
LA-RICS LMR Johnstone Peak_JPK2																											
Phase 1 - Johnstone Peak_JPK2 - System Design																											
Phase 2 - Johnstone Peak_JPK2 - Site Construction and Modification																											
Phase 3 - Johnstone Peak_JPK2 - Supply LMR System Components																											
Phase 4a - Johnstone Peak_JPK2 - Site Installation																											
LA-RICS LMR Loop Canyon_LPC																											
Phase 1 - Loop Canyon_LPC - System Design																											
Phase 2 - Loop Canyon_LPC - Site Construction and Modification																											
Phase 3 - Loop Canyon_LPC - Supply LMR System Components																											
Phase 4a - Loop Canyon_LPC - Site Installation																											
LA-RICS LMR Mount Disappointment_MDI																											
Phase 1 - Mount Disappointment_MDI - System Design																											
Phase 2 - Mount Disappointment_MDI - Site Construction and Modification																											
Phase 3 - Mount Disappointment_MDI - Supply LMR System Components																											
Phase 4a - Mount Disappointment_MDI - Site Installation																											
LA-RICS LMR Magic Mountain Link_MML																											
Phase 1 - Magic Mountain Link_MML - System Design																											
Phase 2 - Magic Mountain Link_MML - Site Construction and Modification																											
Phase 3 - Magic Mountain Link_MML - Supply LMR System Components																											
Phase 4a - Magic Mountain Link_MML - Site Installation																											
LA-RICS LMR Mount Lukens-2_MTL2																											
Phase 1 - Mount Lukens-2_MTL2 - System Design																											
Phase 2 - Mount Lukens-2_MTL2 - Site Construction and Modification																											
Phase 3 - Mount Lukens-2_MTL2 - Supply LMR System Components																											
Phase 4a - Mount Lukens-2_MTL2 - Site Installation																											
LA-RICS LMR Pine Mountain_PMT																											

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Schedule											
							2016	2017	2018	2019	2020	2021	2022					
Phase 1 - Pine Mountain_PMT - System Design							[Gantt bar: 03-Dec-15 A to 11-Apr-19]											
Phase 2 - Pine Mountain_PMT - Site Construction and Modification							[Gantt bar: 10-May-18 to 04-Sep-19]											
Phase 3 - Pine Mountain_PMT - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 30-Jul-19]											
Phase 4a - Pine Mountain_PMT - Site Installation							[Gantt bar: 25-Jun-19 to 04-Nov-19]											
LA-RICS LMR Portal Ridge_PRG							[Gantt bar: 03-Dec-15 A to 08-Oct-19]											
Phase 1 - Portal Ridge_PRG - System Design							[Gantt bar: 03-Dec-15 A to 05-Apr-19]											
Phase 2 - Portal Ridge_PRG - Site Construction and Modification							[Gantt bar: 29-Mar-18 to 07-Aug-19]											
Phase 3 - Portal Ridge_PRG - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 24-Jul-19]											
Phase 4a - Portal Ridge_PRG - Site Installation							[Gantt bar: 19-Jun-19 to 08-Oct-19]											
LA-RICS LMR San Pedro Hill_SPH							[Gantt bar: 02-May-16 A to 19-Apr-19]											
Phase 1 - San Pedro Hill_SPH - System Design							[Gantt bar: 02-May-16 A to 17-Oct-18]											
Phase 2 - San Pedro Hill_SPH - Site Construction and Modification							[Gantt bar: 31-Jul-18 to 16-Jan-19]											
Phase 3 - San Pedro Hill_SPH - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 08-Feb-19]											
Phase 4a - San Pedro Hill_SPH - Site Installation							[Gantt bar: 14-Nov-18 to 19-Apr-19]											
LA-RICS LMR East Sunset Ridge_ESR							[Gantt bar: 04-Apr-17 A to 29-Aug-19]											
Phase 1 - East Sunset Ridge_ESR - System Design							[Gantt bar: 04-Apr-17 A to 22-Apr-19]											
Phase 2 - East Sunset Ridge_ESR - Site Construction and Modification							[Gantt bar: 29-Jun-18 to 29-Aug-19]											
Phase 3 - East Sunset Ridge_ESR - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 20-Dec-18]											
Phase 4a - East Sunset Ridge_ESR - Site Installation							[Gantt bar: 18-Feb-19 to 27-Aug-19]											
LA-RICS LMR Whitaker Middle Peak_WMP							[Gantt bar: 03-Dec-15 A to 14-Oct-19]											
Phase 1 - Whitaker Middle Peak_WMP - System Design							[Gantt bar: 03-Dec-15 A to 04-Apr-19]											
Phase 2 - Whitaker Middle Peak_WMP - Site Construction and Modification							[Gantt bar: 28-Mar-18 to 13-Aug-19]											
Phase 3 - Whitaker Middle Peak_WMP - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 23-Jul-19]											
Phase 4a - Whitaker Middle Peak_WMP - Site Installation							[Gantt bar: 18-Jun-19 to 14-Oct-19]											
LA-RICS LMR Whitaker Ridge_WTR							[Gantt bar: 03-Dec-15 A to 22-Oct-19]											
Phase 1 - Whitaker Ridge_WTR - System Design							[Gantt bar: 03-Dec-15 A to 12-Apr-19]											
Phase 2 - Whitaker Ridge_WTR - Site Construction and Modification							[Gantt bar: 11-May-18 to 21-Aug-19]											
Phase 3 - Whitaker Ridge_WTR - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 31-Jul-19]											
Phase 4a - Whitaker Ridge_WTR - Site Installation							[Gantt bar: 26-Jun-19 to 22-Oct-19]											
LA-RICS LMR Bald Mountain_BMT							[Gantt bar: 16-Nov-15 A to 06-Aug-18]											
Phase 1 - Bald Mountain_BMT - System Design							[Gantt bar: 16-Nov-15 A to 06-Jan-17]											
Phase 2 - Bald Mountain_BMT - Site Construction and Modification							[Gantt bar: 13-Oct-16 A to 28-Feb-18]											
Phase 3 - Bald Mountain_BMT - Supply LMR System Components							[Gantt bar: 03-Oct-16 A to 10-Jan-18]											
Phase 4a - Bald Mountain_BMT - Site Installation							[Gantt bar: 27-Feb-17 A to 06-Aug-18]											



LMR Site Schedules

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Summary

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Year											
							2016	2017	2018	2019	2020	2021	2022					
LA-RICS LMR Cerro Negro_CRN		945	209	77.88%	03-Dec-15 A	08-Oct-18												
Phase 1 - Cerro Negro_CRN - System Design		814	78	90.42%	03-Dec-15 A	06-Apr-18												
Phase 2 - Cerro Negro_CRN - Site Construction and Modification		382	177	53.66%	28-Feb-17 A	23-Aug-18												
Phase 3 - Cerro Negro_CRN - Supply LMR System Components		268	16	94.03%	16-Dec-16 A	10-Jan-18												
Phase 4a - Cerro Negro_CRN - Site Installation		113	113	0%	03-May-18	08-Oct-18												
LA-RICS LMR Del Valle Training_LACFDEL		983	247	74.87%	03-Dec-15 A	29-Nov-18												
Phase 1 - Del Valle Training_LACFDEL - System Design		849	113	86.69%	03-Dec-15 A	25-May-18												
Phase 2 - Del Valle Training_LACFDEL - Site Construction and Modification		255	202	20.78%	16-Dec-16 A	27-Sep-18												
Phase 3 - Del Valle Training_LACFDEL - Supply LMR System Components		192	192	0%	18-Dec-17	13-Sep-18												
Phase 4a - Del Valle Training_LACFDEL - Site Installation		81	81	0%	09-Aug-18	29-Nov-18												
LA-RICS LMR Verdugo Peak County_VPK		900	164	81.78%	03-Dec-15 A	06-Aug-18												
Phase 1 - Verdugo Peak County_VPK - System Design		737	12	98.37%	03-Dec-15 A	04-Jan-18												
Phase 2 - Verdugo Peak County_VPK - Site Construction and Modification		333	83	75.08%	20-Dec-16 A	13-Apr-18												
Phase 3 - Verdugo Peak County_VPK - Supply LMR System Components		269	17	93.68%	16-Dec-16 A	11-Jan-18												
Phase 4a - Verdugo Peak County_VPK - Site Installation		134	134	0%	31-Jan-18	06-Aug-18												
LA-RICS LMR Universal Studios_UNIV		962	226	76.51%	01-Jun-16 A	31-Oct-18												
Phase 1 - Universal Studios_UNIV - System Design		833	97	88.36%	01-Jun-16 A	03-May-18												
Phase 2 - Universal Studios_UNIV - Site Construction and Modification		280	205	26.79%	17-Aug-17 A	02-Oct-18												
Phase 3 - Universal Studios_UNIV - Supply LMR System Components		175	175	0%	18-Dec-17	21-Aug-18												
Phase 4a - Universal Studios_UNIV - Site Installation		76	76	0%	18-Jul-18	31-Oct-18												
LA-RICS LMR Industry Water Tank_INDWT		548	305	44.34%	12-Dec-16 A	19-Feb-19												
Phase 1 - Industry Water Tank_INDWT - System Design		416	173	58.41%	12-Dec-16 A	17-Aug-18												
Phase 2 - Industry Water Tank_INDWT - Site Construction and Modification		387	278	28.17%	12-Jul-17 A	11-Jan-19												
Phase 3 - Industry Water Tank_INDWT - Supply LMR System Components		239	239	0%	18-Dec-17	19-Nov-18												
Phase 4a - Industry Water Tank_INDWT - Site Installation		91	91	0%	16-Oct-18	19-Feb-19												
LA-RICS LMR Compton Court Building_CCB		676	164	75.74%	03-Dec-15 A	06-Aug-18												
Phase 1 - Compton Court Building_CCB - System Design		338	0	100%	03-Dec-15 A	18-Apr-17 A												
Phase 2 - Compton Court Building_CCB - Site Construction and Modification		323	27	91.64%	13-Oct-16 A	25-Jan-18												
Phase 3 - Compton Court Building_CCB - Supply LMR System Components		320	16	95%	03-Oct-16 A	10-Jan-18												
Phase 4a - Compton Court Building_CCB - Site Installation		304	151	50.33%	30-May-17 A	06-Aug-18												
LA-RICS LMR Claremont_CLM		678	166	75.52%	03-Dec-15 A	08-Aug-18												
Phase 1 - Claremont_CLM - System Design		514	2	99.61%	03-Dec-15 A	19-Dec-17												
Phase 2 - Claremont_CLM - Site Construction and Modification		147	45	69.39%	08-Aug-17 A	13-Mar-18												

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Year																				
							2016	2017	2018	2019	2020	2021	2022														
Phase 3 - Claremont_CLM - Supply LMR System Components																											
Phase 4a - Claremont_CLM - Site Installation																											
LA-RICS LMR BKK Landfill_BKK																											
Phase 1 - BKK Landfill_BKK - System Design																											
Phase 2 - BKK Landfill_BKK - Site Construction and Modification																											
Phase 3 - BKK Landfill_BKK - Supply LMR System Components																											
Phase 4a - BKK Landfill_BKK - Site Installation																											
LA-RICS LMR Lower Encinal Pump Station_LEPS																											
Phase 1 - Lower Encinal Pump Station_LEPS - System Design																											
Phase 2 - Lower Encinal Pump Station_LEPS - Site Construction and Modification																											
Phase 3 - Lower Encinal Pump Station_LEPS - Supply LMR System Components																											
Phase 4a - Lower Encinal Pump Station_LEPS - Site Installation																											
LA-RICS LMR LA-RICS Headquarters Building_LARICSHQ																											
Phase 1 - LA-RICS Headquarters Building_LARICSHQ - System Design																											
Phase 2 - LA-RICS Headquarters Building_LARICSHQ - Site Construction and Modification																											
Phase 3 - LA-RICS Headquarters Building_LARICSHQ - Supply LMR System Components																											
Phase 4a - LA-RICS Headquarters Building_LARICSHQ - Site Installation																											
LA-RICS LMR Winding Way_WWY																											
Phase 1 - Winding Way_WWY - System Design																											
Phase 2 - Winding Way_WWY - Site Construction and Modification																											
Phase 3 - Winding Way_WWY - Supply LMR System Components																											
Phase 4a - Winding Way_WWY - Site Installation																											
LA-RICS LMR Mira Loma Facility_MLM																											
Phase 1 - Mira Loma Facility_MLM - System Design																											
Phase 2 - Mira Loma Facility_MLM - Site Construction and Modification																											
Phase 3 - Mira Loma Facility_MLM - Supply LMR System Components																											
Phase 4a - Mira Loma Facility_MLM - Site Installation																											
LA-RICS LMR Rolling Hills Transmit_RHT																											
Phase 1 - Rolling Hills Transmit_RHT - System Design																											
Phase 2 - Rolling Hills Transmit_RHT - Site Construction and Modification																											
Phase 3 - Rolling Hills Transmit_RHT - Supply LMR System Components																											
Phase 4a - Rolling Hills Transmit_RHT - Site Installation																											
LA-RICS LMR Criminal Courts Building_CCT																											

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Schedule											
							2016	2017	2018	2019	2020	2021	2022					
Phase 1 - Criminal Courts Building CCT - System Design							[Gantt bar: 03-Dec-15 A to 11-May-17]											
Phase 2 - Criminal Courts Building CCT - Site Construction and Modification							[Gantt bar: 13-Oct-16 A to 13-Mar-18]											
Phase 3 - Criminal Courts Building CCT - Supply LMR System Components							[Gantt bar: 03-Oct-16 A to 10-Jan-18]											
Phase 4a - Criminal Courts Building CCT - Site Installation							[Gantt bar: 08-Jun-17 A to 06-Aug-18]											
LA-RICS LMR Topanga Peak_TOP							[Gantt bar: 03-Dec-15 A to 04-Mar-19]											
Phase 1 - Topanga Peak_TOP - System Design							[Gantt bar: 03-Dec-15 A to 16-Aug-18]											
Phase 2 - Topanga Peak_TOP - Site Construction and Modification							[Gantt bar: 13-Jul-17 A to 31-Dec-18]											
Phase 3 - Topanga Peak_TOP - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 05-Dec-18]											
Phase 4a - Topanga Peak_TOP - Site Installation							[Gantt bar: 30-Oct-18 to 04-Mar-19]											
LA-RICS LMR County FS 72_LACF072							[Gantt bar: 03-Dec-15 A to 31-Jan-20]											
Phase 1 - County FS 72_LACF072 - System Design							[Gantt bar: 03-Dec-15 A to 30-Jul-19]											
Phase 2 - County FS 72_LACF072 - Site Construction and Modification							[Gantt bar: 12-Apr-19 to 14-Nov-19]											
Phase 3 - County FS 72_LACF072 - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 14-Nov-19]											
Phase 4a - County FS 72_LACF072 - Site Installation							[Gantt bar: 11-Oct-19 to 31-Jan-20]											
LA-RICS LMR Saddle Peak_SPN							[Gantt bar: 03-Dec-15 A to 07-Feb-19]											
Phase 1 - Saddle Peak_SPN - System Design							[Gantt bar: 03-Dec-15 A to 06-Aug-18]											
Phase 2 - Saddle Peak_SPN - Site Construction and Modification							[Gantt bar: 13-Apr-18 to 14-Nov-18]											
Phase 3 - Saddle Peak_SPN - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 21-Nov-18]											
Phase 4a - Saddle Peak_SPN - Site Installation							[Gantt bar: 18-Oct-18 to 07-Feb-19]											
LA-RICS LMR FCCF_FCCF							[Gantt bar: 09-Nov-15 A to 06-Aug-18]											
Phase 1 - FCCF_FCCF - System Design							[Gantt bar: 09-Nov-15 A to 10-Feb-17]											
Phase 2 - FCCF_FCCF - Site Construction and Modification							[Gantt bar: 13-Oct-16 A to 28-Feb-18]											
Phase 3 - FCCF_FCCF - Supply LMR System Components							[Gantt bar: 03-Oct-16 A to 10-Jan-18]											
Phase 4a - FCCF_FCCF - Site Installation							[Gantt bar: 27-Feb-17 A to 06-Aug-18]											
LA-RICS LMR Castro Peak_CPK							[Gantt bar: 03-Dec-15 A to 25-Apr-19]											
Phase 1 - Castro Peak_CPK - System Design							[Gantt bar: 03-Dec-15 A to 23-Oct-18]											
Phase 2 - Castro Peak_CPK - Site Construction and Modification							[Gantt bar: 23-Jun-17 A to 15-Feb-19]											
Phase 3 - Castro Peak_CPK - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 14-Feb-19]											
Phase 4a - Castro Peak_CPK - Site Installation							[Gantt bar: 10-Jan-19 to 25-Apr-19]											
LA-RICS LMR Pomona Court House_POM							[Gantt bar: 03-Dec-15 A to 06-Aug-18]											
Phase 1 - Pomona Court House_POM - System Design							[Gantt bar: 03-Dec-15 A to 03-Jan-18]											
Phase 2 - Pomona Court House_POM - Site Construction and Modification							[Gantt bar: 21-Sep-17 A to 10-Apr-18]											
Phase 3 - Pomona Court House_POM - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 24-May-18]											
Phase 4a - Pomona Court House_POM - Site Installation							[Gantt bar: 20-Apr-18 to 06-Aug-18]											

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Schedule											
							2016	2017	2018	2019	2020	2021	2022					
LA-RICS LMR Mount McDill_MMC		900	164	81.78%	03-Dec-15 A	06-Aug-18												
	Phase 1 - Mount McDill_MMC - System Design	700	4	99.43%	03-Dec-15 A	21-Dec-17												
	Phase 2 - Mount McDill_MMC - Site Construction and Modification	315	72	77.14%	04-Dec-16 A	05-Apr-18												
	Phase 3 - Mount McDill_MMC - Supply LMR System Components	272	16	94.12%	01-Dec-16 A	10-Jan-18												
	Phase 4a - Mount McDill_MMC - Site Installation	141	141	0%	22-Jan-18	06-Aug-18												
LA-RICS LMR Baldwin Hills County_BHS		996	260	73.9%	03-Dec-15 A	18-Dec-18												
	Phase 1 - Baldwin Hills County_BHS - System Design	859	123	85.68%	03-Dec-15 A	08-Jun-18												
	Phase 2 - Baldwin Hills County_BHS - Site Construction and Modification	276	222	19.57%	13-Sep-17 A	25-Oct-18												
	Phase 3 - Baldwin Hills County_BHS - Supply LMR System Components	201	201	0%	18-Dec-17	26-Sep-18												
	Phase 4a - Baldwin Hills County_BHS - Site Installation	85	85	0%	22-Aug-18	18-Dec-18												
LA-RICS LMR Hauser Peak_HPK		900	164	81.78%	16-Nov-15 A	06-Aug-18												
	Phase 1 - Hauser Peak_HPK - System Design	497	0	100%	16-Nov-15 A	06-Jan-17												
	Phase 2 - Hauser Peak_HPK - Site Construction and Modification	363	57	84.3%	13-Oct-16 A	08-Mar-18												
	Phase 3 - Hauser Peak_HPK - Supply LMR System Components	315	16	94.92%	03-Oct-16 A	10-Jan-18												
	Phase 4a - Hauser Peak_HPK - Site Installation	369	26	92.95%	27-Feb-17 A	06-Aug-18												
LA-RICS LMR Monte Vista_MVS		828	164	80.19%	03-Dec-15 A	06-Aug-18												
	Phase 1 - Monte Vista_MVS - System Design	627	0	100%	03-Dec-15 A	21-Nov-17												
	Phase 2 - Monte Vista_MVS - Site Construction and Modification	240	50	79.17%	20-Dec-16 A	27-Feb-18												
	Phase 3 - Monte Vista_MVS - Supply LMR System Components	268	16	94.03%	16-Dec-16 A	10-Jan-18												
	Phase 4a - Monte Vista_MVS - Site Installation	116	116	0%	26-Feb-18	06-Aug-18												
LA-RICS LMR Rio Hondo_RIH		955	443	53.61%	03-Dec-15 A	30-Aug-19												
	Phase 1 - Rio Hondo_RIH - System Design	955	443	53.61%	03-Dec-15 A	30-Aug-19												
	Phase 2 - Rio Hondo_RIH - Site Construction and Modification	189	189	0%	16-Apr-18	03-Jan-19												
	Phase 3 - Rio Hondo_RIH - Supply LMR System Components	244	244	0%	18-Dec-17	26-Nov-18												
	Phase 4a - Rio Hondo_RIH - Site Installation	99	99	0%	19-Oct-18	06-Mar-19												
LA-RICS LMR LA County DPW Water Tank_DPW38		982	246	74.95%	14-Jan-16 A	28-Nov-18												
	Phase 1 - LA County DPW Water Tank_DPW38 - System Design	839	103	87.72%	14-Jan-16 A	11-May-18												
	Phase 2 - LA County DPW Water Tank_DPW38 - Site Construction and Modific	324	213	34.26%	27-Dec-16 A	12-Oct-18												
	Phase 3 - LA County DPW Water Tank_DPW38 - Supply LMR System Compon	181	181	0%	18-Dec-17	29-Aug-18												
	Phase 4a - LA County DPW Water Tank_DPW38 - Site Installation	90	90	0%	26-Jul-18	28-Nov-18												
LA-RICS LMR Oat Mountain_OAT		798	286	64.16%	03-Dec-15 A	23-Jan-19												
	Phase 1 - Oat Mountain_OAT - System Design	661	148	77.61%	03-Dec-15 A	16-Jul-18												
	Phase 2 - Oat Mountain_OAT - Site Construction and Modification	443	239	46.05%	09-Feb-17 A	19-Nov-18												

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	2016	2017	2018	2019	2020	2021	2022
	Phase 3 - Oat Mountain_OAT - Supply LMR System Components	344	92	73.26%	16-Dec-16 A	26-Apr-18							
	Phase 4a - Oat Mountain_OAT - Site Installation	117	117	0%	14-Aug-18	23-Jan-19							
	LA-RICS LMR Signal Hill_SGH	753	241	67.99%	03-Dec-15 A	21-Nov-18							
	Phase 1 - Signal Hill_SGH - System Design	577	65	88.73%	03-Dec-15 A	20-Mar-18							
	Phase 2 - Signal Hill_SGH - Site Construction and Modification	327	207	36.7%	23-Jun-17 A	04-Oct-18							
	Phase 3 - Signal Hill_SGH - Supply LMR System Components	112	112	0%	18-Dec-17	24-May-18							
	Phase 4a - Signal Hill_SGH- Site Installation	154	154	0%	20-Apr-18	21-Nov-18							
	LA-RICS LMR LA Sheriff Temple Station_LASDTEM	900	164	81.78%	03-Dec-15 A	06-Aug-18							
	Phase 1 - LA Sheriff Temple Station_LASDTEM - System Design	616	0	100%	03-Dec-15 A	28-Apr-17 A							
	Phase 2 - LA Sheriff Temple Station_LASDTEM - Site Construction and Modific	328	18	94.51%	13-Oct-16 A	01-Feb-18							
	Phase 3 - LA Sheriff Temple Station_LASDTEM - Supply LMR System Compor	315	16	94.92%	03-Oct-16 A	10-Jan-18							
	Phase 4a - LA Sheriff Temple Station_LASDTEM - Site Installation	333	26	92.19%	18-Apr-17 A	06-Aug-18							
	LA-RICS LMR Lancaster_LAN	513	280	45.42%	17-Jan-17 A	15-Jan-19							
	Phase 1 - Lancaster_LAN - System Design	381	148	61.15%	17-Jan-17 A	13-Jul-18							
	Phase 2 - Lancaster_LAN - Site Construction and Modification	90	90	0%	03-May-18	05-Sep-18							
	Phase 3 - Lancaster_LAN - Supply LMR System Components	225	225	0%	18-Dec-17	30-Oct-18							
	Phase 4a - Lancaster_LAN - Site Installation	116	116	0%	07-Aug-18	15-Jan-19							
	LA-RICS LMR LDWP243_Sylmar_LDWP243	900	164	81.78%	03-Dec-15 A	06-Aug-18							
	Phase 1 - LDWP243 Sylmar_LDWP243 - System Design	500	0	100%	03-Dec-15 A	06-Jan-17							
	Phase 2 - LDWP243 Sylmar_LDWP243 - Site Construction and Modification	314	18	94.27%	13-Oct-16 A	12-Jan-18							
	Phase 3 - LDWP243 Sylmar_LDWP243 - Supply LMR System Components	320	16	95%	03-Oct-16 A	10-Jan-18							
	Phase 4a - LDWP243 Sylmar_LDWP243 - Site Installation	376	26	93.09%	16-Feb-17 A	06-Aug-18							
	LA-RICS LMR Oat Mountain Nike_ONK	676	164	75.74%	03-Dec-15 A	06-Aug-18							
	Phase 1 - Oat Mountain Nike_ONK - System Design	491	0	100%	03-Dec-15 A	02-Nov-17							
	Phase 2 - Oat Mountain Nike_ONK - Site Construction and Modification	288	76	73.61%	20-Dec-16 A	04-Apr-18							
	Phase 3 - Oat Mountain Nike_ONK - Supply LMR System Components	268	16	94.03%	16-Dec-16 A	10-Jan-18							
	Phase 4a - Oat Mountain Nike_ONK - Site Installation	110	110	0%	06-Mar-18	06-Aug-18							
	LA-RICS LMR Puente Hills_PHN	689	164	76.2%	16-Nov-15 A	06-Aug-18							
	Phase 1 - Puente Hills_PHN - System Design	271	0	100%	16-Nov-15 A	30-Aug-17							
	Phase 2 - Puente Hills_PHN - Site Construction and Modification	257	6	97.67%	12-Dec-16 A	27-Dec-17							
	Phase 3 - Puente Hills_PHN - Supply LMR System Components	315	16	94.92%	03-Oct-16 A	10-Jan-18							
	Phase 4a - Puente Hills_PHN - Site Installation	376	26	93.09%	16-Feb-17 A	06-Aug-18							
	LA-RICS LMR Black Jack Peak_BJM	1058	546	48.39%	03-Dec-15 A	22-Jan-20							

LMR Site Schedules

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Schedule											
							2016	2017	2018	2019	2020	2021	2022					
Phase 1 - Black Jack Peak_BJM - System Design							[Gantt bar: 03-Dec-15 A to 19-Jul-19]											
Phase 2 - Black Jack Peak_BJM - Site Construction and Modification							[Gantt bar: 26-Apr-19 to 18-Oct-19]											
Phase 3 - Black Jack Peak_BJM - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 05-Nov-19]											
Phase 4a - Black Jack Peak_BJM - Site Installation							[Gantt bar: 23-Sep-19 to 22-Jan-20]											
LA-RICS LMR Tejon Peak_TPK							[Gantt bar: 03-Dec-15 A to 06-Aug-18]											
Phase 1 - Tejon Peak_TPK - System Design							[Gantt bar: 03-Dec-15 A to 08-Nov-17]											
Phase 2 - Tejon Peak_TPK - Site Construction and Modification							[Gantt bar: 20-Dec-16 A to 12-Mar-18]											
Phase 3 - Tejon Peak_TPK - Supply LMR System Components							[Gantt bar: 16-Dec-16 A to 10-Jan-18]											
Phase 4a - Tejon Peak_TPK - Site Installation							[Gantt bar: 23-Jan-18 to 06-Aug-18]											
LA-RICS LMR Dakin Peak_DPK							[Gantt bar: 03-Dec-15 A to 11-Mar-20]											
Phase 1 - Dakin Peak_DPK - System Design							[Gantt bar: 03-Dec-15 A to 09-Sep-19]											
Phase 2 - Dakin Peak_DPK - Site Construction and Modification							[Gantt bar: 24-May-19 to 14-Jan-20]											
Phase 3 - Dakin Peak_DPK - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 30-Dec-19]											
Phase 4a - Dakin Peak_DPK - Site Installation							[Gantt bar: 20-Nov-19 to 11-Mar-20]											
LA-RICS LMR San Dimas_SDW							[Gantt bar: 16-Nov-15 A to 06-Aug-18]											
Phase 1 - San Dimas_SDW - System Design							[Gantt bar: 16-Nov-15 A to 03-Jan-18]											
Phase 2 - San Dimas_SDW - Site Construction and Modification							[Gantt bar: 11-Jul-17 A to 21-Mar-18]											
Phase 3 - San Dimas_SDW - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 24-May-18]											
Phase 4a - San Dimas_SDW - Site Installation							[Gantt bar: 20-Apr-18 to 06-Aug-18]											
LA-RICS LMR Palmdale Sheriff Station_PLM							[Gantt bar: 03-Dec-15 A to 06-Aug-18]											
Phase 1 - Palmdale Sheriff Station_PLM - System Design							[Gantt bar: 03-Dec-15 A to 20-Nov-17]											
Phase 2 - Palmdale Sheriff Station_PLM - Site Construction and Modification							[Gantt bar: 08-Aug-17 A to 07-Feb-18]											
Phase 3 - Palmdale Sheriff Station_PLM - Supply LMR System Components							[Gantt bar: 03-Oct-16 A to 10-Jan-18]											
Phase 4a - Palmdale Sheriff Station_PLM - Site Installation							[Gantt bar: 11-Dec-17 A to 06-Aug-18]											
LA-RICS LMR Tower Peak_TWR							[Gantt bar: 03-Dec-15 A to 19-Feb-20]											
Phase 1 - Tower Peak_TWR - System Design							[Gantt bar: 03-Dec-15 A to 16-Aug-19]											
Phase 2 - Tower Peak_TWR - Site Construction and Modification							[Gantt bar: 28-Mar-19 to 10-Jan-20]											
Phase 3 - Tower Peak_TWR - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 05-Dec-19]											
Phase 4a - Tower Peak_TWR - Site Installation							[Gantt bar: 21-Nov-19 to 19-Feb-20]											
LA-RICS LMR Green Mountain_GRM							[Gantt bar: 03-Dec-15 A to 11-Jun-19]											
Phase 1 - Green Mountain_GRM - System Design							[Gantt bar: 03-Dec-15 A to 14-Nov-18]											
Phase 2 - Green Mountain_GRM - Site Construction and Modification							[Gantt bar: 25-Jul-18 to 10-Apr-19]											
Phase 3 - Green Mountain_GRM - Supply LMR System Components							[Gantt bar: 18-Dec-17 to 08-Mar-19]											
Phase 4a - Green Mountain_GRM - Site Installation							[Gantt bar: 04-Feb-19 to 11-Jun-19]											



LMR Site Schedules

Data Date 16-Dec-17
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Summary

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	2016	2017	2018	2019	2020	2021	2022		
LA-RICS LMR Rancho Palos Verdes City Hall_RPV1		1003	267	73.38%	03-Dec-15 A	27-Dec-18									
	Phase 1 - Rancho Palos Verdes City Hall_RPV1 - System Design	884	135	84.73%	03-Dec-15 A	26-Jun-18									
	Phase 2 - Rancho Palos Verdes City Hall_RPV1 - Site Construction and Modifi	162	214	0%	22-Sep-17 A	15-Oct-18									
	Phase 3 - Rancho Palos Verdes City Hall_RPV1 - Supply LMR System Compo	213	213	0%	18-Dec-17	12-Oct-18									
	Phase 4a - Rancho Palos Verdes City Hall_RPV1 - Site Installation	79	79	0%	10-Sep-18	27-Dec-18									



LMR Summary Schedule by Phase

Data Date 16-Dec-17

Summary

Activity ID	Activity Name	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Schedule Gantt Chart											
							2016	2017	2018	2019	2020	2021	2022					
Total		2021	1285	36.42%	09-Nov-15 A	22-Nov-22	[Gantt bar spanning from Nov 2015 to Nov 2022]											
LMR Phase 1		1185	449	62.11%	09-Nov-15 A	09-Sep-19	[Gantt bar spanning from Nov 2015 to Sep 2019]											
LMR Phase 2		854	548	35.83%	29-Sep-16 A	24-Jan-20	[Gantt bar spanning from Sep 2016 to Jan 2020]											
LMR Phase 3		835	529	36.65%	29-Sep-16 A	30-Dec-19	[Gantt bar spanning from Sep 2016 to Dec 2019]											
LMR Phase 4a (Site)		904	598	33.85%	29-Sep-16 A	03-Apr-20	[Gantt bar spanning from Sep 2016 to Apr 2020]											
LMR Phase 4b (SI)		1607	1285	20.04%	07-Sep-16 A	22-Nov-22	[Gantt bar spanning from Sep 2016 to Nov 2022]											



Monthly Report #52

Reporting Period: 11/14/17 thru 12/19/17

**Los Angeles Regional Interoperable Communications
System (LA-RICS) - Land Mobile Radio System**

Motorola Solutions, Inc.



MOTOROLA SOLUTIONS

AGENDA ITEM D

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1. Executive Summary

The Los Angeles Regional Interoperable Communications System Land Mobile Radio (LA-RICS LMR) program consists of the following five (5) phases; Phase 1 LMR System Design, Phase 2 LMR Site Construction and Site Modification, Phase 3 Supply LMR System Components, Phase 4 LMR System Implementation, and Phase 5 LMR System Maintenance. Phases 1-4 span over a five (5) year period which includes one (1) year of system warranty. Phase 5 provides the Authority with fifteen (15) one year options for Motorola Solutions Inc. (MSI) to provide system monitoring and maintenance services.

The LA-RICS LMR program is currently in Phase 1 LMR System Design. Notices-To-Proceed numbers 1 through 16 have been issued authorizing distinct work for system Design services, the design and implementation of the initial deployment of the LMR system elements termed “Early Equipment”, “Specified Equipment and System on Wheels”, and “Station B Equipment”, “Frequency Licensing”, “UPS System”, and “Portable Radios, Consolettes and Consoles”, “Portable Radio Equipment”, alternate sites “Project Descriptions”, “Frequency Licensing for the Base System”, “Bridge Warrant for Early”, “Retuning of SOW & Station B UHF Frequencies”, “Project descriptions for Nine Potential Replacement Sites” and “LMR System Redesign and Relocation of Core 2”.

On April 25 the Authority executed **Amendment 17** to make necessary changes to Phase 1 for additional project descriptions, to make changes to reflect the Work in the applicable Phases for the change in the number of sites in the LMR system, to exercise the Unilateral Options for all Work pertaining to Phases 2-4.

On April 27, 2016 the Authority issued **NTP17** authorizing specific Work related Phases 2, 3, and 4 for ten (10) LMR sites.

On May 4, 2016 the Authority executed **Amendment 18** to make necessary changes to Phase 1 for additional project descriptions and to make adjustments to Phase 1 services to accommodate additional sites.

On May 5, 2016 the Authority Board of Directors approved **Amendment 19** to remove one (1) site from the system and to reconcile equipment quantities for certain LMR sites. **Amendment 19** was executed with an effective date of May 5, 2016.

On June 2, 2016 the Authority issued **NTP18** authorizing Work to develop Project Descriptions for two LMR sites.

On September 8, 2016 the Authority Board of Directors approved **Amendment 20** to reconcile nine (9) LMR Sites to reflect the updated LMR System Design, inclusion of 3D modeling drawings, and remove certain Site Lease Exhibits from the contract.

On October 6, 2016 the Authority Board of Directors approved **Amendment 21** to reconcile ten (10) LMR sites to reflect the updated LMR System Design, replace one (1) LMR site with a new site, remove five (5) Project Descriptions from the contract, and make administrative cost changes to one (1) LMR site.

On October 11, 2016 the Authority issued **NTP 19** authorizing specified Work related to Phases 2-4 for nine (9) LMR sites.

On November 3, 2016 the Authority Board of Directors approved **Amendment 22** to reconcile three (3) LMR sites to reflect the updated LMR System Design and to make administrative changes to Exhibit F (Administration of Agreement). On December 12, 2016 the Authority issued **NTP 20** authorizing specified Work related to Phases 2-4 for two (2) replacement LMR sites along with Special Operations Testing for DTVRS, ACVRS, LARTCS, and NMDN.

On December 12, 2016 the Authority Board of Directors approved **Amendment 23** to authorize specified Work related to Phases 2-4 for ten (10) LMR sites.

On December 2, 2016 the Authority issued **NTP 20** authorizing Phase 2-4 work at two (2) sites; and specified pre-installation acceptance testing for DTVRS, ACVRS, LARTCS, NMDN, and final core staging and SOT Prep.

On December 19, 2016 the Authority issued **NTP 21** authorizing specified Work related to Phases 2-4 for Six (6) LMR sites; all remaining work in Phase 2-4 at one (1) site; and all work related to ACVRS equipment in Phase 3 for six (6) sites.

On January 12, 2017 the Authority Board of Directors approved **Amendment 24** reconciling the following five (5) LMR System Sites (CLM, LACFDEL, LARICSHQ, WMP, WTR) to align with the updated System Design.

On March 2, 2017 the Authority Board of Directors approved **Amendment 25** reconciling the following six (6) LMR System Sites (AGH, VPK, BMT, CRN, MVS, and ONK) to align with the updated System Design. This Amendment also acknowledges three (3) sites (BHS, DPW38, and RPV1) into the scope of Phases 2, 3, and 4 to align with the updated LMR System Design.

On March 31, 2017 the Authority issued a Supplemental **NTP 21** authorizing specified Work related to Phases 2-4 for Seven (7) LMR sites (AGH, CRN, MVS, ONK, TPK, VPK, and LDWP243).

On April 6, 2017 Authority Board of Directors approved **Amendment 26** reconciling the following seven (7) LMR System Sites (BUR1, JPK2, LPC, MDI, MML, MTL2, and PRG) to align with the updated System Design. This Amendment also acknowledges one (1) site (LAN) into the scope of Phases 2, 3, and 4 to align with the updated LMR System Design.

On June 1, 2017 Authority Board of Directors approved **Amendment 27** reconciling the following two (2) LMR System Sites (FRP and PLM) to align with the updated System Design. This Amendment also includes two (2) sites (BKK and UCLA) into the scope of Phases 2, 3, and 4 to align with the updated LMR System Design.

On June 29, 2017 the Authority issued **NTP 22** authorizing specified Work related to work for Task A.1.9.1 (Mitigation Monitoring and Reporting Plan (MMRP)).

On August 3, 2017 Authority Board of Directors approved **Amendment 28** reconciling one (1) LMR System Site (BMT) to align with the updated System Design.

On September 7, 2017 Authority Board of Directors approved **Amendment 29** reconciling one (1) LMR System Site (POM) to align with the updated System Design and to make changes necessary to reflect LMR Change Order Modifications.

On September 14, 2017 the Authority issued **NTP 23** authorizing specified Work related to Phases 2-4 for Five (5) LMR sites.

On September 25, 2017 the Authority issued **NTP 24** authorizing specified Work related to Phases 2-4 for Five (5) LMR sites.

On November 9, 2017 Authority Board of Directors approved **Amendment 30** reconciling seven (7) LMR System Sites (BUR1/DPW38/FRP/JPK1/MIR/MML/RHT) to reflect the updated LMR System Design for these sites. This Amendment also includes one (1) LMR System Site (UNIV) into the scope of Phases 2, 3, and 4 to align WITH THE UPDATED LMR SYSTEMN Design.

This report covers the period from 11/14/17 thru 12/19/17

During this reporting period associated Phase 1 tasks were performed to include A&E activities, site and network design, frequency planning, site scope reviews, Site Access Agreement drawings, backhaul/microwave path surveys, and Environmental Reviews. A&E activities included site walks, site sketch development, site surveys, and development of the Zoning Drawings, geotechnical plans, and Construction Drawings.

The primary Phase 1 activities for this period include:

LMR System Design

System design activities for this period included frequency identification and planning, backhaul network design, narrowband mobile data network design, fleet mapping, Spectrum Fingerprinting and Noise Floor Monitoring process review, and incorporation of system design parameters into the construction drawing process. MSI is utilizing the Design of Record dated 9/6/16 to support the site True-Up process as well as information as it is refined and determined weekly. MSI and the Authority continue to refine the backhaul design and have identified areas of concern and their corresponding solutions.

Site Design Activities






Site design activities for this period included continued site evaluation walks, site sketch development and submittals, site survey walks, project description development and submittals for additional sites, Site Access Agreement exhibits, Zoning Drawing development and submittal, and Construction Drawing development and submittal for Authority review. Additional activities included power load studies, evaluation of as-built drawings and tower mapping, tower structural analysis for the applicable sites, submittal of applicable geotechnical drilling plans, and review of electrical one-line drawing designs.

LA-RICS Deliverables - Authority Site Access Agreements

Authority's efforts to develop and execute the applicable Right of Entry and Site Access Agreements for the required sites in the LMR design are ongoing. This activity is primarily being driven by the Authority's Site Access Team in conjunction with LA County CEO Real Estate Division. As of this reporting period 24 (out of 60) Site Access Agreements have been executed.

The Authority continues to work with FEMA to obtain independent site environmental approvals which are required prior to the start of construction at a site.

The following table provides a dashboard snapshot of the projects' health signs.

LMR Project Dashboard			
Category	Rating	Change	Comments
Schedule			Revisions to the baseline schedule for all phases (1-4) are reviewed weekly. A&E drawing progress is still slow but is being followed and tracked on a weekly basis. MSI and the Authority continue to see slips in individual site schedules that impact its overall Program schedule due to delays in Site Access Agreement, A&E drawings, Building Permit Submissions, and construction starts. Individual site environmental approvals may impact geotechnical investigations. These delays continue to negatively impact the schedule.
Quality			The construction drawing, review, and approval process continues to be challenging. Corrective actions continue to be put into place. The Authority and MSI will continue to work together to identify additional means to shorten this process. MSI will continue with improvements to its quality control processes and cycle times. Both parties have agreed to a process to streamline the cycle times which address the quality and comment incorporation issues experienced to date while simultaneously limiting the number of revisions necessary prior to approval.
Risk			Risk items have been identified regarding: Spectrum, Site Access Agreements, and Site Conditions. FEMA independent site environmental approvals required.
Scope			Scope is well defined, although there may be increased scope associated with the design enhancement recommendations and in construction once geotechnical investigations are complete. Change Order processes are in place and being discussed and reviewed weekly with MSI, Jacobs, and the Authority.
Budget			Current budget reflects contract pricing and include the sites that have gone through the true-up review. Revised budgets for each site will be determined at the completion of each true-up.

2. Project Status

The following sections identify task activities during the reporting period and the planned activities for the next reporting period.

2.1 Tasks In Progress or Completed

The following depict the task activity that occurred during the current reporting period.

Activity Name	Activity Status
LA-RICS Deliverables	
Lease Negotiations & Site Access Use Agreements	In Process
FEMA Environmental Site Approvals & Construction Waivers	In Process
Notice To Proceed for applicable sites	In Process
LMR System Design	
Design baseline site parameters & Design development	In Process
Contract True-up of site designs and equipment for each site	In Process
Spectrum Fingerprinting and Noise Floor Monitoring Initial Test Update (FCCF/PHN)	In Process
Provided updated USFS tower elevations (BUR1/GMT/JPK2/LPC/MML/PRG/WMP/WTR)	In Process
Site Design, Zoning and Permitting	
Site Walks and Site Sketch Development & Approvals (MTL2)	In Process
Site Surveys	In Process
Develop Zoning Drawings & Approvals	In Process
Geotechnical Boring (MML)	In Process
Develop Construction Drawings & Approvals	In Process
Submit Permits Drawings and Approvals (20 submitted to date; 12 sites permitted)	In Process
Pre- Construction	
Pre- Construction Plans in review	In Process
Pre-Proposal meeting with USFS representatives	Complete
Construction	
Construction (10 of 10 UASI 2013, 5 of 8 UASI 2016-funded sites)	In Process

2.2 Tasks Planned for Next Period

The following depict the task activity that is planned for the next reporting period.

Activity Name	Planned Status
LA-RICS Deliverables	
Lease Negotiations & Site Access Use Agreement	On Going
Access to Core Sites	On Going
FEMA Environmental Site Approvals & Construction Waivers	In Process
Review and Approve Zoning and Construction Drawings	In Process
Notice To Proceed for applicable sites	In Process

Activity Name	Planned Status
Environmental Review & Documentation (Authority)	
Additional Sites for Consideration Environmental Reviews	In Process
LMR System Design	
Design Baseline site parameters & design development	In Process
Contract True-up of site designs and equipment for each site	In Process
Site Design	
Site Walks and Site Sketch Development & Approvals	In Process
Site Surveys	In Process
Develop Zoning Drawings & Approvals	In Process
Submittal of Zoning Drawings	In Process
Geotechnical Boring – USFS Sites	In Process
Develop Construction Drawings and Approvals	In Process
Submit Permits Drawings and Approvals	In Process
Pre-Construction	
Geotech drilling at USFS sites – MTL2 and ESR (11 of 13 complete)	In Process
Pre- Construction Packages & Site Monitoring (where applicable)	In Process

Activity Name	Activity Status
Staging	
Site Construction	
Outreach to Neighborhoods for Applicable Sites	On Going
Pre- Construction Packages Review & Approval	On Going
Site Construction & Site Monitoring (where applicable)	On Going
Site Construction Inspection Approvals	On Going
Site Construction – (SDW (equipment pre-staged), VPK, and MMC)	On Going

2.3 Authority Look-Ahead Tasks (120-Day)

For the Authority planning purposes the following table provides a one hundred twenty (120) Day look-ahead of the Authority-specific activities to conduct coordination, inspections, approvals, consents, and or provide decisions necessary from the Authority to facilitate Contractor's progress.

Activity Name	Activity Status
LA-RICS Deliverables	
Lease Negotiations & Site Access Use Agreement	On Going
LA-RICS Provides Access to Core Sites	On Going
FEMA Environmental Site Approvals & Construction Waivers	On Going
Review and Approve Zoning and Construction Drawings	On Going
Notice To Proceed for applicable sites	On Going

Activity Name	Activity Status
Environmental Review & Documentation (Authority)	
Additional Sites for Consideration Environmental Reviews	On Going
LMR System Design	
Review and Approve design baseline site parameters & design sections	On Plan to Finish
Contract True-up of site designs and equipment for each site	On Going
Site Design	
Schedule Access for the Development A&E Activities at Selected Sites	On Going
Review and Approve Site Sketches	On Going
Review and Approve Zoning Drawings	On Going
Review and Approve Geotechnical Boring Plans	On- Going
Review and Approve Construction Drawings	On Going
Review and Approve Building Permit Packages	On Going
Site Construction	
Outreach to Neighborhoods for Applicable Sites	On Going
Pre- Construction Packages Review & Approval	On Going
Site Construction & Site Monitoring (where applicable)	On Going
Site Construction Inspection Approvals	On Going
Site Construction - (ONK,SDW,VPK,TPK, MVS,POM,PLM,MMC,AGH,BKK,CRN,SGH,UNIV)	Started

3. Project Risk Register

Title	Assigned	Impact	Risk Description	Status
Site Parameters	Authority	High	Site parameters (e.g. tower heights, RF equipment configurations) are different from the baseline agreement and may impact System performance.	Active
Environmental Process	Authority	Med	The individual determination of environmental impacts or mitigation may impact the schedule for site work (e.g., bird nesting season). Individual environmental releases from FEMA are required to start work at sites.	Active
Delayed Drawings and Permit Release	Motorola	High	Delay in permit submission and release has impacted the construction schedule and ability to meet grant spending guidelines. Site changes and System design elements are impacting drawing progress for certain sites. The Authority and MSI continue to struggle to incorporate Authority comments, creating a quality control issue	Active

Title	Assigned	Impact	Risk Description	Status
			which requires additional rounds of review. This has inhibited the submission of drawings for permit.	
Site Access Agreements	Authority	High	Lease holders approvals are needed in order to implement LA-RICS improvements.	Active
Project Schedule	Motorola	High	Overall project schedule and individual site permit submissions/work starts impacted by slow A&E construction development progress.	Active

4. Areas of Concern

This section describes any events and or circumstances of which the Contractor is aware that has delayed or may delay project activities and what corrective or remedial actions was taken or will be taken to resolve the issue. Outstanding Issues Log (the “OIL Log”) entries are also tabulated and monitored in this section. “Oil Log” items include, for example, sequencing, infrastructure, site access, coordination issues, congestion of workers and equipment, time requirements for design, procurement, and installation.

ID	Event / Circumstance	Remedial Action Taken or Required
02-02	System Design impacts due to changes in site conditions	Motorola and the Authority have analyzed probable site changes and suitable site replacement candidates. Adjusted tower heights and undetermined site parameters at several of the sites will impact the coverage. System design efforts will determine system impacts. Impact includes, microwave backhaul, equipment reconfigurations, channel plan changes, system coverage, licensing, and site design and permitting.

5. Disputes and Claims

This section describes any disputes, potential claims, and claims made during the reporting period.

Dispute / Claim / Potential Claim	Status / Actions	Resolution Date
None at this time		

6. Financial Status

The following represents the invoice payments that were completed during the reporting period and the remaining amount to be invoiced and paid.

Invoice Payment Category	Invoice Payment Totals (\$)
Contract Sum Full Payable Amount (Amendment 30)	169,478,781
Cumulative Invoice Payments from Last Report	63,777,994
Total Invoice Payments This Period	27,993
Remaining Amount to be Paid	105,672,794

7. LA-RICS Master Schedule

Schedule review meetings are held weekly. The project schedule includes the latest list of sites and the Authority’s actual and projected dates for Site Access Agreements, FEMA independent site environmental approvals, FEMA construction waivers, and site Notice to Proceeds. An exported file (XER) of the master project schedule is delivered on a weekly basis.

(See attached LMR Executive Project Summary Snapshots)



Monthly Report - #46

Reporting Period: 11/14/17 thru 12/19/17

**Los Angeles Regional Interoperable Communications
System (LA-RICS) – Public Safety Broadband Network**

Motorola Solutions, Inc.



MOTOROLA SOLUTIONS

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1. Executive Summary

The Los Angeles Regional Interoperable Communications System - Public Safety Broadband Network (LA-RICS PSBN) project is a 700 MHz Long Term Evolution (LTE) public safety mobile broadband network that will provide broadband services across the County of Los Angeles for the Authority's Member Agencies.

The LA-RICS Authority was awarded a Comprehensive Community Infrastructure (CCI) Broadband Technology Opportunity Program (BTOP) grant by Department of Commerce's National Telecommunications and Information Administration (NTIA) to deploy the LA-RICS PSBN system. The BTOP grant program requires that the LA-RICS PSBN system be compatible with the future Nationwide Public Safety Broadband Network (NPSBN) currently being designed and developed by FirstNet, an independent authority within the NTIA. Additionally the Authority executed a Spectrum Manager Lease Agreement (SMLA) with FirstNet for spectrum usage rights to operate on the 700 MHz public safety broadband spectrum (D-Block). The LA-RICS-PSBN system provides the Authority with the opportunity to work cooperatively with FirstNet, while participating in testing and providing input in what will ultimately form the National Public Safety Broadband Network (NPSBN).

The LA-RICS PSBN program consists of the following five (5) phases; Phase 1 PSBN System Design, Phase 2 PSBN Site Construction and Site Modification, Phase 3 Supply PSBN Components, Phase 4 PSBN System Implementation, and Phase 5 PSBN Maintenance. Phases 1-4 must have construction activities substantially completed by September 30, 2015 to be in compliance with the BTOP grant funding program. The cost for all Work performed that is not covered by the BTOP grant program will be the sole responsibility of the Authority. Phase 5 provides the Authority with the first five (5) years of one year options for Motorola to provide system monitoring and maintenance services.

On March 10, 2014 the Authority issued **NTP 1** authorizing Motorola to begin all work in Phase 1 for System Design services. Phase 1 primary activities include:

- LA-RICS Deliverables
- Project Management Plans
- System Design
- Site Design
- RF Emissions Report
- Inventory and Management System

On April 7, 2014 the Authority issued **NTP 2 for Amendment 2** to add detailed design services to Phase 1 for Additive Alternate No. 1, a Home Subscriber Server (HSS), and Additive Alternate No. 2, a Redundant Evolved Packet Core (EPC).

On June 20, 2014 the Authority issued **Amendment 3** to exercise the Unilateral Options for all Work pertaining to Phase 2, Site Construction and Site Modification, and Phase 3, Supply PSBN Components.

On June 20, 2014 the Authority issued **NTP 3** to begin limited work related to Phase 2 and Phase 3. Microwave equipment was excluded from NTP 3 until the Authority approves the backhaul design and issues a separate NTP. NTP 3 also authorized Motorola to proceed with all planning and non-site mobilization work related to Phase 2, Site Construction and Site Modification, however, no construction work at a specific project site location will be conducted until the Authority has received all required NEPA and/or any other applicable Federal and State Environmental approvals for each specific location.

On July 10, 2014 the Board of Directors approved **Amendment 4** for Phase 2, Site Construction and Site Modification, and Phase 3, Supply PSBN Components of Additive Alternate No. 1, a Home Subscriber Server (HSS) and Additive Alternative No. 2, a Redundant Evolved Packet Core (EPC).

On September 8, 2014 the Authority issued **NTP 4** to proceed with work related to Phase 3 Supply PSBN Components for Additive Alternate No. 1, a Home Subscriber Server (HSS). Phases 2 and 4 were excluded from NTP 4 as they relate to Additive Alternative No. 1. Per NTP 4, authorization to design and purchase the HSS have been issued but installation and implementation have been excluded.

On September 17, 2014 the Authority issued **NTP 5** authorizing Motorola to proceed with Work related to Site Construction and Site Modification under Phase 2 for Additive Alternate No. 1, Home Subscriber Server (HSS). With respect to Phase 2, Site Construction and Site Modification, the services to be performed for Additive Alternate No. 1 involve minor site preparation activities in order to receive applicable equipment racks within the existing communications rooms at the Fire Command and Control Facility.

On September 25, 2014 the Authority issued **NTP 6** authorizing Motorola to proceed with ordering 40 additional standard equipment packages. As of NTP 6, Motorola is not authorized to proceed with ordering any equipment that is dependent on final design approval from the Authority, including for microwave and backhaul, until such time as the Authority has approved the final design for such sites and issues an NTP. The final site and backhaul design will be completed within 60 days of the Authority finalizing site locations and tower configurations.

On September 26, 2014 the Authority issued **NTP 7** authorizing Motorola to proceed with Phase 4, PSBN Implementation Work. The work related to the installation of the Primary EPC at FCCF consists of installing, optimizing, testing, commissioning, and deploying all of the Authority-authorized portion of the PSBN including, without limitation, all hardware, software, physical and network infrastructure, data, and all other deliverables and other work necessary to implement the full functionality of the PSBN and training staff on the use of the PSBN. NTP 7 excludes installation of the System Management Monitoring Servers (SMMS - the servers required to manage and monitor the PSBN).

On October 1, 2014 the Authority approved **Amendment 6** for the removal of three (3) PSBN Sites and to make the changes necessary to reflect the replacement of undisguised antenna support structures to disguised antenna support structures at 32 PSBN Sites. Amendment 6 increases the Maximum Contract Sum by \$2,613,300 from \$175,583,275 to \$178,196,575.

On October 10, 2014 the Authority issued **NTP 8** authorizing Motorola to modify the existing order of 40 sites contemplated in NTP No. 6 (standard antenna support structures - 70 foot undisguised monopoles) to order 40 sites worth of equipment considering any mix of antenna support structures (undisguised and/or disguised, with disguised antenna support structures limited to 31 sites pursuant to Amendment No. 6) that Motorola deems necessary to commence construction activities. As of this NTP, construction activities remain prohibited pending the Authority receiving FONSI and SHPO approvals.

On October 22, 2014 the Authority issued **NTP 9** authorizing Motorola to proceed with all Phase 4 Work related to the installation of the System Management and Monitoring Subsystem (SMMS) at the County of Los Angeles' Fire Department's Fire Command and Control Facility (FCCF). The NTP included the statement: "Motorola Solutions has agreed to provide a fully geo-redundant SMMS configuration (to

begin implementation in November, 2015).” Motorola provided clarification that the agreement was still under negotiation for cost and schedule delivery and that the deployment of the geo-redundant SMMS was predicated on the NTP for the redundant Evolved Packet Core (EPC).

On November 4, 2014 the Authority issued **NTP 10** authorizing Motorola to begin construction on 94 sites provided within the NTP.

On December 2, 2014 the Authority issued **NTP 11** authorizing Motorola to proceed with all Work necessary for ordering and installing site routers and core routers at FCCF, LAPDVDC, and all sites for Phase 3, Supply PSBN Components. NTP also authorized Motorola to proceed with all Work related to Phase 3 for Additive Alternate 2 Redundant EPC to be located at LAPDVDC.

On December 2, 2014 the Authority issued **NTP 12**, authorizing Motorola to proceed with ordering an additional 75 PSBN Sites worth of standard equipment, such as antenna support structures Evolved Packet Core (EPC) components, eNodeB components, antennas, and associated accessories for all sites that are not dependent on final design approval. Additionally, Motorola is authorized to proceed with the ordering of all Work related to Phase 3, Supply PSBN Components, and Phase 4, PSBN Implementation, for TMR Cabinets and TMR battery backup components for 75 PSBN Sites.

On December 30, 2014 the Authority issued **NTP 13**, authorizing Motorola to begin construction on 31 City of Los Angeles Sites listed in NTP.

On December 31, 2014 the Authority approved **Amendment 7** to make changes necessary to reflect the replacement of undisguised antenna support structures with various types of antenna support structures at eight PSBN Sites.

On January 22, 2015 the Authority issued **NTP 14**, authorizing Motorola to proceed with ordering 25 vehicular routers.

On January 28, 2015 the Authority issued **NTP 15**, authorizing Motorola to begin construction on the two sites VEFD001 and VEFD003

On February 5, 2015 the Authority approved **Amendment 8** for the removal of thirty-six (36) PSBN Sites, include six (6) new PSBN Sites and to make the changes necessary to reconcile the hose tower installation costs for twenty-eight (28) PSBN Sites. Amendment 8 decreases the Maximum Contract Sum from \$178,196,575 to \$166,254,679.

On March 3, 2015 the Authority issue **NTP 16**, authorizing Motorola to begin construction on the four sites; ARCPD01, AZPD001, ELMNTPD, LACF159.

On March 4, 2015 the Authority issue **NTP 17**, authorizing Motorola to proceed with ordering and implementing TMR cabinets for seventy-five (75) sites.

On March 3, 2015 the Authority and Motorola presented its project status report to the NTIA and NOAA representatives. The meeting highlighted the equipment procurement plan and implementation plan to deploy 182 sites by August 15, 2015. Motorola presented the updated PSBN system coverage maps based on the 182 sites.

On March 5, 2015 the Authority approved **Amendment 9** for the removal of twenty-four (24) PSBN Sites, include six (6) new PSBN Sites and to make the changes necessary to accommodate various changes in civil construction scope at applicable sites.. Amendment 9 decreases the Maximum Contract Sum from \$166,254,679, to \$158,930,274.

On March 10, 2015 the Authority issue **NTP 18**, authorizing Motorola to proceed with ordering the necessary microwave radio equipment and accessories to implement the PSBN microwave paths identified in the approved PSBN backhaul design.

On March 18, 2015 the Authority issue **NTP 19**, authorizing Motorola to proceed with all Work related to Phase 4 (PSBN implementation) for Additive Alternate 2, Redundant Evolved Packet Core (EPC) at the Los Angeles Police Department Valley Dispatch Center (LAPDVDC).

On April 2nd, 2015 the Authority issued a formal **Suspension Order**, directing Motorola to halt the procurement equipment.

On April 3rd, 2015 the Authority received a **Stop Work Notice** for all work and was issued a Corrective Action Plan (CAP) from NOAA to be submitted by April 13, 2015. Between 3/3/15 and 3/13/15 Motorola produced numerous supporting coverage scenarios for the Authority to include within the CAP response.

On April 16, 2015 the Authority issued a letter to Motorola requesting a plan for reduced scope and an analysis of cost impact. A Schedule was released on 5/07/15 and is updated on a weekly basis.

On May 7, 2015 the Authority issued **NTP 20**, authorizing Motorola to proceed with ordering the necessary microwave radio equipment and accessories to implement the PSBN microwave paths remaining as part of the CAP site list.

On May 7, 2015 the Authority issued **NTP 21**, partially cancelling the Suspension Order that was issued on April 3, 2015 and authorized construction to resume at the 69 sites identified in the Corrective Action Plan.

On May 7, 2015 the Authority issued **NTP 22**, directing Motorola to 1) look at options are returning Additive Alternate No. 1, the Redundant Evolved Packet Core (EPC), assigned to the Los Angeles Police Department Valley Dispatch Center (LAPDVDC) to Ericsson; (2) recover the redundant EPC for Motorola's use in other projects or (3) resell the Redundant EPC to a secondary market. Motorola is evaluating the cost impacts and the legal possibilities with the directive issued in this NTP.

On May 12, 2015 the Authority issued **NTP 23**, authorizing Motorola to order fiber optic equipment and provide services via contract between Fujitsu and Motorola in order to create a link between the FCCF and the City fiber ring. NTP 23 was limited to the County portion of the design.

On May 15, 2015 the Authority issued **NTP 24**, authorizing Motorola to order leased fiber services from AT&T, Verizon, and Time Warner to provide connections between the applicable CAP sites and the FCCF EPC site.

On May 15, 2015 the Authority issued **NTP 25**, directing Motorola to 1) return the excess PSBN equipment to its manufacturers, 2) recover the excess equipment for Motorola's use in other projects,

or 3) resell the excess PSBN equipment to a secondary market, in accordance with the list of equipment in the NTP. Motorola is evaluating the list of equipment provided in the NTP and the cost impacts and the legal possibilities with the directive issued in this NTP.

On May 20, 2015 the Authority issued **NTP 26** Authorizing Motorola to order fiber optic equipment and provide services via contract between Fujitsu and Motorola to create a link between the EPC located at the Los Angeles County Fire Department's FCCF facility and the City Los Angeles fiber ring. NTP 26 expands upon the products and services in NTP 23 to include the City portion of the fiber scope.

On June 18, 2015 the Authority approved **Amendment 10** for the Inclusion of 15 Cell-On-Wheels and the Construction Restoration Work at 30 PSBN Sites.

On June 25, 2015 the Authority issued **NTP 27** Authorizing Motorola to proceed with all Phase 1 (System Design) Work for fifteen (15) Cell-On-Wheels (COWs) sites.

On June 30, 2015 the Authority issued **NTP 28** Authorizing Motorola to proceed with all Work related to construction restoration for thirty (30) PSBN Sites that have been removed from the program.

On June 30, 2015 the Authority issued **NTP 29** Authorizing Motorola to proceed with ordering nine hundred and seventy-five (975) VML-750 in-vehicle router units.

On July 16, 2015 the Authority approved **Amendment 11** to add 15 Cell-On-Wheels (COWs) and the PASDNPD site to the PSBN program.

On July 16, 2015 the Authority issued **NTP 30** Authorizing Motorola to proceed with all Phase 2 (Site Construction and Site Modification), Phase 3 (Supply PSBN components), and Phase 4 (PSBN Implementation) Work for fifteen (15) Cell-On-Wheels (COWs).

On August 13, 2015 the Authority approved **Amendment 12** to remove forty-two (42) sites from the PSBN system, authorize the removal of seven (7) tower foundations at the applicable restoration sites, to purchase 5,000 Universal Integrated Circuit Cards (UICC), purchase of five (5) CISCO routers and five (5) corresponding units of data services, and approvals for applicable change orders.

On August 13, 2015 the Authority issued **NTP 31** Authorizing Motorola to proceed with ordering five thousand (5,000) standalone universal Integrated Circuit Cards (UICCs)

On September 1, 2015 the Authority issued **NTP 32** authorizing Motorola to proceed with ordering five (5) CISCO routers and five (5) corresponding units of data and related Work that are capable of operating a 4G cellular aircard on a commercial carrier that will allow Motorola and the Authority to temporarily test eNodeB sites in the event that the permanent backhaul solution is not available at the time of site commissioning.

On September 4, 2015 the Authority approved **Amendment 13** to confirm the prior removal of 77 additional sites.

On September 23, 2015 the Authority issued **NTP 33** authorizing Motorola to proceed with replacing the security certificates at the EPC core.

On October 9, 2015 the Authority approved **Amendment 14** to adjust the contract for scope changes to tower sites.

On October 15, 2015 the Authority issued **NTP 34** instructing Motorola to provide a portion of the training plan for 9 classes.

On December 17, 2015 the Authority Approved **Amendment 15** to: (a) Settle and resolve all outstanding claims with the Contractor, including all claims from Contractor's subcontractors, and including all known and all potential future claims through the completion of the work under the Agreement, with the exception of changes to the Work directed in writing by the Authority; (b) Approve payment to the Contractor of \$15,764,246 in the specific amounts for the specific claims identified in tab C.16 of Exhibit C (Schedule of Payments) attached to the Amendment; (c) Approve the reduction of project management fees payable to the Contractor in the Agreement for sites not constructed, for a total reduction in project management fees of \$5,078,774, as reflected in tabs C.3, C.4 and C.5 of Exhibit C (Schedule of Payments) attached to the Amendment; and (d) Authorize an increase to the Maximum Contract Sum by the net amount of \$10,685,472 from \$132,899,485 to \$143,584,957.

On December 3, 2015, the Authority issued a Suspension Order for Waterway Coverage Testing, Special Operations Testing (SOT), and the Public Safety Broadband Network (PSBN) Burn-in Testing (Burn-in).

On December 21, 2015 the Authority and Motorola executed **Amendment 15** as described above.

On February 23, 2016, the Authority issued a Termination for Convenience for the Wide Area Coverage Testing.

On March 9, 2016 the Authority issued Motorola a **Termination for Convenience** for all Waterway Coverage Testing, Special Operations Testing (SOT), Public Safety Broadband Network (PSBN) Burn-in Testing (Burn-in) Testing, and for Freeway Coverage Testing.

On March 9, 2016 the Authority approved **Amendment 16** to include all Work related to additional Radio Frequency (RF) Emissions testing at twelve (12) PSBN sites to include six (6) indoor emission tests at identified sites.

On March 16, 2016 the Authority issued **NTP 35** authorizing Motorola to conduct additional RF Emissions Testing at twelve (12) PSBN Sites.

On May 4, 2016 the Authority approved **Amendment 17** to remove all Work related to Coverage, Stress, and Burn-in testing. On May 5, 2016 MSI submitted a claim for the portion of Work completed on the terminated scope. The Authority is currently reviewing MSI's submission.

On August 31, 2016 the Authority and MSI executed **Amendment 18** to extend the warranty period until 12/31/16, reconciliation of excess equipment and spare equipment, corrected construction costs associated with the LASDCVS site, and correction of administrative errors in Exhibit C.

On December 12, 2016, the Authority and MSI executed **Amendment 19** to extend the warranty period until 3/31/17; make changes necessary to upgrade the Authority's Deployable Vehicle to support upcoming special events; reflect the reduction in certain training; reflect a reduction in Wide Area Coverage Testing; reflect an increase in Optimization Work; authorize the Authority to release the ten

(10) percent Holdback for certain completed, accepted, invoiced, and paid work; and identify a net decrease in the Maximum Contract Sum by \$1,567,382.

On December 23, 2016 the Authority issued **NTP 36** authorizing Motorola to upgrade the Authority's Deployable Vehicle, System on Wheels (SOW) to support upcoming events.

On March 20, 2017, the Authority and MSI executed **Amendment 20** to reflect the relocate of certain equipment (towers, generator fuel tanks, tower hardware, etc) from the SCE Mesa Substation to the County of Los Angeles Fire Department's Del Valle Training Facility.

On March 20, 2017, the Authority and MSI executed **Amendment 21** to extend the Warranty Period on a month-to-month basis, at no additional cost; with the first month commencing on April 1, 2017 and expiring on April 30, 2017.

On March 23, 2017 the Authority issued **NTP 37** authorizing Motorola to relocate certain equipment (towers, generator fuel tanks, tower hardware, etc) from the SCE Mesa Substation to the County of Los Angeles Fire Department's Del Valle Training Facility.

On April 13, 2017, the Authority and MSI executed **Amendment 22** to create one (1) Access Point Name (APN) for a minimum of four (4) agencies.

On April 13, 2017, the Authority and MSI executed **Amendment 23** to extend the Warranty Period until May 31, 2017, at no additional cost.

On April 18, 2017 the Authority issued **NTP 38** authorizing Motorola to create one (1) Access Point Name (APN) for four (4) of the Authority's member agencies from a pool of six (6) member agencies.

On May 18, 2017, the Authority and MSI executed **Amendment 24** to exercise the first one-year Option Term for Maintenance Work under Phase 5 (PSBN Maintenance), commencing on June 1, 2017 and expiring on May 31, 2018; replace Exhibit A (Statement of Work), in particular Task 9 (Public Safety Enterprise Network Services) with new verbiage .

On May 31, 2017 the Authority issued **NTP 39** authorizing Motorola to proceed with one-year of Maintenance Work under Phase 5 (PSBN Maintenance), commencing on June 1, 2017, and expiring on May 31, 2018, unless sooner terminated or extended, in whole or in part.






On August 2, 2017 the Authority issued **NTP 40** authorizing Motorola to perform additional Access Point Name (APN) and Public Safety Enterprise Network (PSEN) Work for four (4) of the Authority's member agencies (Bell PD, Claremont PD, Inglewood PD, UCLA Health Dept.)

On October 5, 2017, approved **Amendment 25** to capture the agreement to close out any remaining open issues and to close out this project. Amendment captures reduction in Network Management System and Inventory Management System scope; Reduction in Documentation Work; Reduction in Additive Alternate No. 2 (Redundant Evolved Packet Core) Work; Removal of Additive Alternate No. 3 (Location Services Work; Reduction in Cell on Wheels (COW) Site Work; Reduction in Site Construction Changes Work; Amendment to the Base Document; and Amendment to the Agreement Exhibits.

On November 21, 2017, approved **Amendment 26** reduced the PSBN full contract amount to adjust for price revisions in Exhibit C.12 and C.15.

This report covers the period from 11/14/17 thru 12/19/17.

The following table provides a dashboard snapshot of the projects' health signs.

PSBN Project Dashboard			
Category	Rating	Change	Comments
Schedule			The project schedule is complete (other than the closeout items Motorola has agreed to complete during the maintenance phase).
Quality			No quality issues at this time.
Risk			No risk issues at this time
Scope			Nothing new to report.
Budget			Authority has not yet authorized payment for excess equipment that was ordered by Authority and delivered prior to any stop work notices.

2. Project Status

The following sections identify task activities during the reporting period and the planned activities for the next reporting period.

2.1 Tasks In-Progress and Completed

The following depict the task activity that occurred during the current reporting period.

Activity Name	Activity Status
LA-RICS Deliverables	
Construction, Power & Fiber for 9 SCE COW Sites	In Progress
Site Construction & Site Modification (Phase 2)	
Permit Clear for Applicable LTE Sites (1 LACUSC)	In Progress
Reconfiguration of Antennas at LACUSC	In Planning
System Implementation (Phase 4)	
COW Sites Install, Configuration, Commissioning / Test	In Progress
Complete re-installation of all equipment at LACUSC	In Planning

Activity Name	Activity Status
Overall Project Closeout	
Completion of documentation submissions (Fixed Sites)	Complete
Completion of documentation submissions (COW Sites)	In Progress
Warranty - Start of Maintenance	
Year One Maintenance Agreement	In Progress

2.2 Tasks Planned for Next Period

The following depict the task activities that are planned for the next reporting period.

Activity Name	Planned Status
LA-RICS Deliverables	
Construction, Power & Fiber for 9 SCE COW Sites	In Progress

2.3 Authority Look-Ahead Tasks (120-Day)

Activity Name	Start
LA-RICS Deliverables	
Construction, Power & Fiber for 9 SCE COW Sites	In Progress
Construction, Power & Fiber for 9 SCE COW Sites	In Progress
MSI Deliverables	
Completion of documentation submissions (COW Sites)	In Progress
Reconfiguration of Antennas at LACUSC	In Progress

3. Project Risk Register

For this monthly report, the following items are at risk.

Title	Assigned	Impact	Risk Description	Status
None				

4. Areas of Concern

This section describes any events and/or circumstances of which the Contractor is aware that has delayed or may delay project activities and what corrective or remedial actions were taken or will be taken to resolve the issue. Outstanding Issues Log (the "OIL Log") entries are also tabulated and monitored in this section. "Oil Log" items include, for example, sequencing, infrastructure, site access, coordination issues, congestion of workers and equipment, time requirements for design, procurement, and installation.

ID	Event / Circumstance	Remedial Action Taken or Required
M1-1	None	n/a

5. Disputes and Claims

This section describes any disputes, potential claims, and claims made during the reporting period.

Dispute / Claim / Potential Claim	Status / Actions	Resolution Date
None	n/a	n/a

6. Financial Status

The following table represents the invoice payments that have been completed to date. The revised Contract Sum amount based on the Corrective Action Plan is being reviewed by the Authority and Motorola. For this reporting period the Contract Sum is based on Amendment 25.

PSBN Invoice Payment Category	Invoice Payment Totals
PSBN Contract Sum Full Payable Amount (Phases 1-5)	\$ 100,632,046
Cumulative Invoice Payments from Last Report	(\$ 82,972,716)
Total Invoice Payments This Period	(\$ 2,9980,346)
Remaining Amount to be Paid	\$ 14,678,984

7. LA-RICS PSBN Project Schedule

No project schedule as this project is completed and in the one-year maintenance period.



**LOS ANGELES REGIONAL INTEROPERABLE
COMMUNICATIONS SYSTEM AUTHORITY**

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<http://www.la-rics.org>

SCOTT EDSON
 EXECUTIVE DIRECTOR

January 11, 2018

To: LA-RICS Authority Board of Directors

From: Scott Edson
 Executive Director

OUTREACH UPDATE

The purpose of this discussion item is to update your Board on the status of outreach activities pertaining to the LA-RICS Public Safety Broadband Network (PSBN) and Land Mobile Radio (LMR) project. The below meetings occurred since our last report to you:

Municipality	Meeting Date
<i>Meeting with representative from Sonim Technology</i>	November 28, 2017
<i>Meeting with LA County Fire Chief Osby</i>	November 29, 2017
<i>Meeting with representatives from AT&T</i>	November 30, 2017
<i>Meeting with representatives from LA County Internal Services Department (ISD)</i>	December 4, 2017
<i>Meeting with representatives from AT&T</i>	December 5, 2017
<i>CalFRN Board of Director's Meeting</i>	December 6, 2017
<i>Meeting with representatives from Congress</i>	December 7, 2017
<i>Meeting with representatives from AT&T</i>	December 7, 2017
<i>T-Band Meeting</i>	December 11-13, 2017
<i>Meeting with Supervisor Sheila Kuehl's Staff</i>	December 18, 2017
<i>Meeting with West Covina's Police and Fire Staff</i>	December 19, 2017
<i>Meeting with Police Forum representatives</i>	December 21, 2017

Members of the LA-RICS Team participated in a webinar with Sonim Technology to review a demonstration of innovative Public Safety Communications Technology.

Executive Director Edson met with Los Angeles County Fire Chief Osby to discuss critical Fire Sites for the LMR system.

Executive Director Scott Edson and Members of the LA-RICS Team met with representatives from AT&T to continue discussions regarding the Asset Transfer Agreement.

Members of the LA-RICS Team met with representatives from Los Angeles County Internal Services Department (ISD) to discuss communications options.

Members of the LA-RICS Team met with representatives from AT&T to continue ongoing discussions regarding the Business Agreement.

Executive Director Edson attended the CalFRN Board of Director's Monthly Meeting and a Special Closed Session Meeting.

Executive Director Edson went to Washington D.C., and met with several members of Congress to update them on LA-RICS and FirstNet, and made a presentation in the Rayburn Foyer for all to attend on The Future of First Responder Technology.

Members of the LA-RICS Team met with representatives from AT&T to continue ongoing discussions regarding the Business Agreement.

Executive Director Edson attended a T-Band Meeting in Brooklyn, New York. The main focus of the meeting was to discuss a Nationwide Alliance to continue the use of T-Band.

Program Manager Chris Odenthal and Executive Assistant Wendy Stallworth-Tait met with Supervisor Sheila Kuehl's Deputies Nicole Englund and Timothy Lippman to provide an update on the Long Term Evolution (LTE) and LMR sites in the 3rd Supervisorial District.

Members of the LA-RICS Team met with West Covina Police and Fire Department staff to review and walk LMR site BKK.

Executive Director Edson met with representatives of the Police Executive Research Forum (PERF) to discuss LA-RICS' PSBN capabilities.

Lastly, the LA-RICS Communication Team is preparing for the release of Volume 3, Issue 8 of the LA-RICS Newsletter.

WST:pl



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SCOTT EDSON
 EXECUTIVE DIRECTOR

January 11, 2018

To: LA-RICS Authority Board of Directors

From: Scott Edson
 Executive Director

PSBN ONBOARDING UPDATE

The purpose of this discussion item is to update your Board on the status of onboarding users, exercising the system, and other onboarding related activities pertaining to the Public Safety Broadband Network (PSBN) project. The below activities have occurred:

STATUS OF PSBN AGENCY ONBOARDING		
Agency	Onboarding Status	Number of Units Installed/Demo Kit/SIM cards Received
LASD	Installations in progress.	893
LACoFD	Installations in progress.	430
Inglewood PD	Router installations underway. APN complete.	8
Claremont PD	Two routers in use.	2
Bell PD	Meeting scheduled for 1/10/18 to discuss the purchase of consoles and radios.	2
Covina PD	Two routers being installed in new vehicles.	2
UCLA Health	Mobile Stroke Unit in operation.	1
Health Services / EMS	Used portable PSBN kits at the West Hollywood NYE event as back up.	2
El Segundo Fire & PD	ELFD installing two routers.	2
Signal Hill PD	Pending response from AT&T regarding the type of router they are willing to provide.	0
La Verne PD & FD	Pending Installation of 2 routers.	
Azusa PD	No longer interested in Demo Kit.	0
Irwindale	Irwindale PD investigating their preparedness to install two routers.	0
Sierra Madre PD & FD	Elected to postpone their decision to accept LA-RICS routers pending California's decision on FirstNet Opt-in.	2

Engagement continues for interested agencies via demonstrations, providing test Demo Kits, and technical coordination meetings with the participation of the Los Angeles County Sheriff's Department (LASD) and the County of Los Angeles Fire Department (LACoFD).

The PSBN Onboarding Team continues to meet with representatives of UCLA Health. The latest discussions focus on the possible relocation of the stroke unit to Long Beach due to the fact that Long Beach provides better PSBN coverage.

Lastly, Battalion Chief Zuniga has arranged for a meeting with LA-RICS, LACoFD, Emergency Management Services (EMS) and a number of private ambulance companies that have contracts with the County of Los Angeles. Meeting is targeted for January 24, 2018, at 9:00 a.m.

WST:pl



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SCOTT EDSON
EXECUTIVE DIRECTOR

January 11, 2018

Board of Directors
Los Angeles Regional Interoperable Communications System Authority (the "Authority")

Dear Directors:

APPROVE MODIFICATION TO FUNDING SOURCE FOR PREVIOUSLY APPROVED SOW UPGRADE

SUBJECT

Board approval is requested to modify the fund source for work performed to upgrade the Authority's Deployable Vehicle Site on Wheels (SOW).

RECOMMENDED ACTION

It is recommended that your Board approve a modification to the fund source for work performed on the Authority's Deployable Vehicle totaling \$235,768, to be payable from the Fiscal-Year 2017-18 Adopted Budget Long Term Evolution (LTE) Operations and Maintenance (O&M) fund source.

BACKGROUND

On December 12, 2016, your Board approved Amendment No. 19 to Agreement No. LA-RICS 008, which included upgrading the Authority's SOW with equipment, materials, configuration, installation, backup power, antenna storage, mounts, fiber connectivity and other items to assist with special and emergency events. Work on the SOW was completed and accepted in October 2017 totaling \$235,768. At the time the action item was approved by your Board staff identified Broadband Technology Opportunities Program (BTOP) grant as the sole fund source for the work. Due to the nature of the work and use of the Deployable Vehicle on both the Land Mobile Radio (LMR) and Public Safety Broadband Network (PSBN) systems, staff consulted with the BTOP grantor on the appropriateness and allowability of this work to be solely funded under the BTOP grant. Upon review and discussion with the grantor, staff recommends modification of fund source from BTOP grant to LTE O&M due to the fact the SOW serves multiple purposes. This modification will simplify expenditure management from an asset tracking perspective.

AGENDA ITEM H

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

The purpose of the recommended action is to modify the fund source from BTOP grant to LTE O&M, allowing for payment of upgrade work completed on the Authority's SOW from the proper fund source.

FISCAL IMPACT/FINANCING

The costs related to SOW upgrade will be payable under the LTE O&M fund source included in the LA-RICS Fiscal-Year 2017-18 Adopted Budget.

CONCLUSION

Approval of the recommended action will allow for invoice processing of completed and accepted work from the LTE O&M Fund Source.

Respectfully submitted,



SCOTT EDSON
EXECUTIVE DIRECTOR

SOC

cc: Counsel to the Authority