AGENDA

LOS ANGELES REGIONAL
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

BOARD OF DIRECTORS REGULAR MEETING

Thursday, October 3, 2013 • 9:00 a.m.

Grace E. Simons Lodge
1025 Elysian Park Drive, Los Angeles, CA 90012

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

AGENDA POSTED: September 27, 2013
Complete agendas are made available for review at the designated meeting location during normal business hours and may also be accessible on the Authority's website at http://www.la-rics.org.

Members:

1. **William T Fujioka**, Chair, CEO, County of Los Angeles
2. **Charles L. Beck**, Vice Chair, Police Chief, City of Los Angeles
3. **Mark R. Alexander**, City Manager, representing the California Contract Cities Association
4. **Leroy D. Baca**, Sheriff, County of Los Angeles
5. **Reginald Harrison**, Deputy City Manager, City of Long Beach
6. **LeRoy J. Jackson**, City Manager, City of Torrance, representing At Large Seat
7. **Dr. Mitchell H. Katz**, Director, DHS, County of Los Angeles
8. **Gerry F. Miller**, Chief Legislative Analyst, City of Los Angeles
9. **Daryl L. Osby**, Fire Chief, County of Los Angeles
10. **Brian Cummings**, Fire Chief, City of Los Angeles
11. **Donald Pedersen**, Police Chief, City of Culver City, representing At Large Seat
12. **Scott Pickwith**, Police Chief, representing the Los Angeles County Police Chiefs Association
13. **Kim Raney**, Police Chief, City of Covina, representing At Large Seat
14. **Bill Walker**, Fire Chief, representing the Los Angeles Area Fire Chiefs Association
15. **Miguel Santana**, CAO, City of Los Angeles
16. **Gregory L. Simay**, Assistant General Manager, City of Burbank Water & Power, representing At Large Seat
17. **Steven K. Zipperman**, Police Chief, Los Angeles School Police Department

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Officers:

1. **Patrick Mallon**, Executive Director
2. **Wendy L. Watanabe**, County of Los Angeles Auditor-Controller
3. **Mark J. Saladino**, County of Los Angeles Treasurer and Tax Collector
4. **Patricia Saucedo**, 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 (1)

1. September 5, 2013 Regular Meeting Minutes

Attachment: Item 1

IV. CONSENT CALENDAR – (None)

V. REPORTS (2–5)

2. Committee Reports

   Finance Committee – Stephen Sotomayor

   Legislative Committee – Daryl Osby

3. Director's Report – Pat Mallon

4. Project Manager's Report – Pat Mallon

Attachment: Item 4

5. Grant Status Report – Pat Mallon

VI. DISCUSSION ITEMS (None)

VII. ADMINISTRATIVE MATTERS (6–9)

6. Acceptance of Service Contributed by the County of Los Angeles – Funding Plan
   a. It is recommended that your Board accept the contribution of the County of Los Angeles of the service of PMC, an independent consultant, for development of the LA-RICS funding plan

Attachment: Item 6

7. Jacobs' Amendment #7 – Pat Mallon

   Authorize the Executive Director to execute a contract amendment with Jacobs, substantially similar to the attached form, to:

   a. Separate the Scope of Work into two separate projects, defined as the Land Mobile Radio (LMR) System project and the Long Term Evolution (LTE) System project; and

   b. Increase the maximum contract sum of by $4,889,427, to include new scope of work.

Attachment: Item 7

8. Election of At-Large Members – Pat Mallon

It is recommended that your Board either:

a. Temporarily suspend Section 3.01 of the Authority's Bylaws and extend the term of the current At-Large Director and Alternate Director seats to June 5, 2014 to allow for continued consistency in the make-up of the Authority's Board to address and complete the LTE procurement and related issues for a Funding Plan;

OR,

b. Announce that the Board meeting to be held on April 3, 2014 as date on which the mail-in ballot election of the At-Large Director and Alternate Director seats shall be conducted.

Attachment: Item 8

9. California Joint Powers Insurance Authority – Pat Mallon

It is recommended that your Board:

Designate a Board Member to serve as the appointee to represent the Authority on the California Joint Powers Insurance Authority (CJPIA) and the Executive Director to serve as the alternate appointee, all in accordance with the provisions of Article 7 of the CJPIA

Attachment: Item 9

VIII. CLOSED SESSION REPORT – (None)

IX. MISCELLANEOUS – (None)

X. PUBLIC COMMENTS

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

10. Project Funding
11. Project Risk Controls

XII. ADJOURNMENT and NEXT MEETING:

Thursday, November 7, 2013, at 9:00 a.m., at the Grace E. Simons Lodge.

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

September 5, 2013

Grace E. Simons Lodge
1025 Elysian Park Drive, Los Angeles, CA 90012

Board Members Present:

William "'Bill" T Fujioka Chair, CEO, County of Los Angeles
Daryl L. Osby, Fire Chief, County of Los Angeles
Reginald "Reggie" Harrison, Deputy City Manager, City of Long Beach
Bill Walker, Fire Chief, City of Beverly Hills, representing the Los Angeles Area Fire Chiefs Association
Scott Pickwith, Police Chief, City of La Verne, representing the Los Angeles County Police Chiefs Association
LeRoy J. Jackson, City Manager, City of Torrance, representing At Large Seat
Gregory "Greg" L. Simay, Assistant General Manager, City of Burbank Water & Power, representing At Large Seat

Representatives For Board Members Present:

Patricia "Patty" J. Huber, representing Miguel Santana, for the City of Los Angeles Chief Administrative Office
Ronnie Villanueva, representing Brian Cummings, for the City of Los Angeles Fire Department
Matias Farfan, representing Gerry Miller, for the City of Los Angeles Chief Information Office
David Betkey, representing, Leroy "Lee" D. Baca, for the County of Los Angeles Sheriff Department
Cathy Chidester, representing Dr. Mitchell H. Katz, for the County of Los Angeles Department of Health Services
Nancy L. Ramirez, representing Steven K. "Steve" Zipperman, for the Los Angeles School Police Department
Ron Iizuka, representing Donald "Don" Pedersen, City of Culver City, At Large Seat
Derek Webster, representing Kim Raney, City of Covina, At Large Seat

Officers Present:

Pat Mallon, LA-RICS Executive Director
Patricia Saucedo, Board Secretary

Absent:

Charles "Charlie" L. Beck, Vice Chair, Police Chief, City of Los Angeles
Mark R. Alexander, City Manager, City of La Cañada Flintridge, representing the Contract Cities Association
Wendy L. Watanabe, Auditor-Controller, County of Los Angeles
Mark J. Saladino, Treasurer and Tax Collector, County of Los Angeles

AGENDA ITEM 1

LA-RICS

I. CALL TO ORDER

II. ANNOUNCE QUORUM – Roll Call

Chair Bill Fujioka began the meeting promptly at 9:00 a.m., and acknowledged that a quorum was present.

III. APPROVAL OF MINUTES – (1)

1. August 15, 2013 Special Meeting Minutes. **MOTION APPROVED.**

IV. CONSENT CALENDAR – (None)

V. REPORTS – (2–5)

2. Committee Reports

a. Finance Committee – Stephen Sotomayor
This item was held; to be addressed at a later point during this meeting.

b. Legislative Committee – Olyvia Rodriguez
Chair Daryl Osby invited Vice-Chair Olyvia Rodriguez to give a report on behalf of the Legislative Committee.

Vice-Chair Olyvia Rodriguez greeted the Board members and provided an update of the August 21, 2013 Legislative Meeting where two items was discussed. One of them being the next steps with regards to the T-Band issues that were identified in the comments LA-RICS submitted to the FCC in May 2013, identifying the challenges with the T-Band, especially as it relates to adequate funding needed, as well as adequate spectrum. The Committee is continuing to look at potential recommendations to provide to your Board and will be meeting again with all committee members to further identify various options. Right now, Congress is not considering further major legislation in this area.

With regards to Grant opportunities, the Committee discussed looking at various funding options beyond the critical Federal Grants that the project currently relies on heavily; but, also looking at State and Federal revenue streams and working more closely with the Finance Committee and coordinating with them to identify different grant opportunities. This effort would apply not to just Homeland Security fund, but also to potential grants in transportation, schools, and anything that could help with the project.

Chair Bill Fujioka stated, as discussed in the past, now that we have a contract and we have real movement, it's time to shift our attention on the Legislative and Grant issues. I firmly believe that as we move forward, we are demonstrating our absolute progress (it's not potential any more) and viability. Those opportunities will be created for us. It just won't happen, until we knock on doors and make a presence, and that is for us as a region. Later in the meeting we are going to talk about the Grant Status and the Funding Plan, but I also want to put on our radar screen that there is a possibility of a group of us heading East to have a discussion on how we can generate additional funding, as it impacts our current Grants and some of the deadlines they have been placed on us.

c. Operations Committee – No Report
d. Technical Committee – No Report

3. Director's Report – Pat Mallon

Executive Director Pat Mallon provided an update on the LTE Project. A number of entities have registered to receive the LTE RFP and the supplement. A proposers' conference was held on August 22, 2013 and questions were due from the various proposers on August 29, 2013. Proposals are due on September 26, 2013.

We are still in need of evaluators. We ask that you look at your staff to see what can be contributed to support this effort. We have been advised by NTIA that we can use the BTOP Grant Funds to pay for those evaluators. Executive Director Mallon then reminded the Board of the conditions regarding who can participate as evaluators.

As far as the Land Mobile Radio System, which was approved by your Board on August 15th, we do anticipate that the Notice to Proceed for Phase 1 activity will be issued today.

We have been holding meetings with the various Cities regarding the Site Access Agreements. So far the responses have been very positive. I am very encouraged with that. But one question that is common amongst them is what their costs will be for participation in the project. We will be discussing that under the Funding Plan in Item 6.

4. Project Manager's Report – Pat Mallon

Executive Director Pat Mallon stated that the Jacobs report is included for your review.

5. Grant Status Report – Pat Mallon

Executive Director Pat Mallon stated, the Sub-recipient Agreement with the City of Los Angeles for the UASI 2010, has been executed and is proceeding forward. The Sub-recipient Agreement for UASI 2009 is pending inclusion on the City Council's Agenda for September 13th. The language for this agreement will be very similar in form to what was in the UASI 2010 agreement.

As Mr. Fujioka mentioned, the UASI 2010 Grant performance period ends on March 31, 2013. And we are working through the options relative to that Grant to make sure that we can expend all those funds.

VII. ADMINISTRATIVE MATTERS (7) – Out of Sequence

7. Oversight Committee – Pat Mallon

It is recommended that your board:

Authorize Chair Fujioka to establish an Oversight Committee to monitor change orders, amendments, completion of Tasks, Subtasks, Deliverables and Milestones, or any deviation thereof, as it relates to the LA-RICS Land Mobile Radio System contract, with committee members made up of one representative from each of the following:

a. County of Los Angeles
b. City of Los Angeles
c. Other Member not representing the County or City of Los Angeles

Membership of the Oversight Committee will be rotated every ~~6 months~~ **12 months [Amended]**, or sooner as deemed necessary by the Chair. The Oversight Committee representatives will work with staff to establish a meeting schedule at their first meeting and provide reports to the Board of Directors at regular Board meetings.

Executive Director Pat Mallon stated that Item number 7 is a request of Mr. Santana and Mr. Miller to direct the Chair to appoint an Oversight Committee consisting of three members. Staff's recommendation is that the committee include one representative from the County, one from the City of Los Angeles, and a third member not representing either of those two entities.

Alternate Board Member Cathy Chidester asked, "What was the rational for the six-month rotation?" Pat Mallon replied, that is just discretionary timeframe. After a brief discussion, Board Member LeRoy Jackson moved to motion to revise for one year. Seconded by another Board member and received no objections.

MOTION APPROVED.

VI. DISCUSSION ITEM (6) – Out of Sequence

6. Funding Plan – Pat Mallon

Chairman Bill Fujioka provided a Grant status report regarding USAI funds and reiterated to the Board that the City of Los Angeles is the Grant Administrator of these funds. As we look at USAI funds we want to ensure that we're going to be ready for the 2009 Grant funds. For the 2010 funds, flexibility is needed in the event that we have to proceed with this project, that we can expend the funds within the timeframe. Prior conversations with the City and FEMA regarding extensions were based on the fact that we didn't have a contract and had a couple of false starts. However at a meeting with FEMA staff back in May 2013, the impression was given that once our contract is in place they would be willing to discuss the extensions. In May 2013, we signed a contract. However, I think there is still concern from the City side that FEMA is going to say no. But based on that meeting we had in May, where there was at least a willingness to discuss the extension, that's one of the things that when I mention going back East and talking to folks, that's one of the critical items I would like to talk to the Feds about is the progress that has been made. We just need a short-term extension to this. In addition to meeting with FEMA, and then knocking on doors for money, this is a very critical trip for us. I'll be meeting with the City staff to talk about this because they are the administrators of this Grant. Board Member Greg Simay asked about latitude from the granting agency if we are able to interweave the design and construction aspect of the project. Pat Mallon stated that approach would cause concerns with the California Environmental Quality Act (CEQA). We have been in discussions with FEMA, and have started the consultation process with them and some other agencies regarding the sites.

Stephen Sotomayor, Chair of Finance Committee, provided an update of the last Finance Committee meeting. The Finance Committee had asked the Executive Director if they could retain finance expertise, to assist the Finance Committee with the development of a Funding Plan. In our last meeting, we received a presentation from County ISD on finance models that have been applied to the County's CIWRS system, as well as other models that exist, as well as potential consultants that could help the Finance Committee put together a funding plan from many different angles. We will hold a special meeting on September 12, 2013 to look at those different options. Mr. Mallon asked the Finance Committee about accelerating the timeline

associated with the funding plan, especially in light of the LTE system which has a cash match. Pat Mallon added that in the past we discussed pushing off the development of the financing plan until we had a detailed design for the LMR system completed. That works very well for that system, but if we wait until the conclusion of the detailed design (probably September 2014), it will be well past the timeframe when we need to begin construction on the LTE system. The Joint Powers Agreement stipulates that we have to offer a funding plan before we can begin construction. So with that in mind we've come to the conclusion that we can't wait until September 2014 to begin development of the funding plan. My recommendation is that we move forward on development of a plan immediately. There is potential for needing some adjustment as we get through the detailed design of the LMR system. Fortunately, we are in a good position with future UASI grants to potentially fund the project without relying on local revenue for the LMR system. We are in discussions with City Managers and have shared estimates of what that hard match requirement would be based on population and area of their City compared to the whole County. But if we developed a financing plan for LMR based on the known contract value and the financing plan for the LTE side of it based on the grants that we have, plus the hard match requirement, we think we can offer a relatively comprehensive funding plan. We also need to include consideration of the maintenance, whether we contract with that through the commercial enterprises or through Authority members. My hope is to be able to bring back for discussion, a preliminary financing plan to your Board at the November or December JPA meeting. That's a significant departure from our previous discussions.

Chairman Bill stated that preliminary estimates for the LMR System ran close to $600 million. We know that price has changed significantly to the point where we can fund the LMR using grant dollars. The fact that this project will allow us to bring on a new communications system for our whole region through the use of grant funds is a huge benefit and impact. We are still faced with this10% hard match for LTE. When the funding plan is presented, please look at it in an overall content. The savings, the benefit we have, the impact of the respective budget, by being able to fund the LMR side, which is grant funds, and hopefully, as I try to plan for the next five years for the County's budget and the money I've set aside for our communications upgrade, on the mobile radio side, it is my intent to convince at least my Board to say, this will be paid for through grant funds, and the funds I've set aside for that could be moved over to fund our share of the hard match for the LTE side. But its big folks, to be able to get a completely new radio system through the grant funds. Board Member Greg Simay stated a policy decision from the Board will be needed when it comes to the Operations & Management cost. Are we going to attempt to fund the potential replacement processes, and that would be the electronics since fortunately, the towers last for many years, or would the assumption be that there would be a bond issue or we wouldn't worry about the replacement next year or in the future, at which time you'd attempt to pass a bond issue or something? There are advantages and disadvantages to both. Chairman Bill Fujioka stated we have to put all the options on the table and look at what's the most viable for the short term and the long term basis.

Board Member LeRoy Jackson asked, "Will this provisional funding plan have a flow of the 10% required by each agency? Will you have an estimate of what the 10% will be for each agency?" Pat Mallon stated, yes. We can put forth a funding plan, and then, if there are significant adjustments that need to be made either because the bids that have come back in from the LTE project exceed what we think they're going to be or because of grant funds or the detail design process shows some anomaly. then we can make some adjustments and bring that back. Board

Member LeRoy Jackson stated, “There are some triggering mechanisms in the JPA Bylaws relative to when the financial plan is approved. Has Counsel agreed that the provisional plan does not start those triggering mechanisms?” Pat Mallon stated, I believe the issue of the funding plan was one of those dynamic issues. We can develop a funding plan and say, as an example, the subscriber costs for a device, exclusive of the infrastructure costs would be $25 per unit. But that is based on maintenance of the infrastructure applied to all the subscribers units that are on it. If there are a number of agencies or municipalities that decide not to participate in the system, that’s going to bring the subscribers contributions down but your fixed cost don’t change It will be an interactive process. Board Member Greg Simay stated, I think one of the keys in the LTE System is that when this grant cycle is done you’ll have a starter system. A system that people will learn to stand on. A key to the economics of a starter system is, how you get the participation of agencies within the County that might have resources that can integrate with the system. Because the amount that we took in for the starter system, I don’t think it’s going to be owner risk, for most of the agencies. It’s really how you go from there to a full blown system and what that will look like. That’s really I think the challenge. Board Member Patty Huber stated, I think Mr. Jackson’s question is valid. When we see this plan in December what we need to know is if it is triggering all the requirements of the JPA documents. Because there are timelines by which people have to make decisions. Pat Mallon stated, I agree. And that would certainly be a policy decision from the Board as to whether the Board feels that it should trigger the timelines. The issue is that until that trigger begins, we cannot begin construction. So it puts us in a tough position as far as being able to complete, particularly the Broadband project by August 2015, if we can’t begin construction until to 2015. Board Member LeRoy Jackson stated, we spoke a while back of splitting the timelines between the two systems, for that very purpose. And, that may not be possible at this time. But, I’m not sure it’s a policy or if it’s a legal question, and you may want to talk to counsel on that. Board Member Patty Huber stated, because I think the document is very clear. Stephen Sotomayor stated, and I want to mention, from the Committee’s standpoint, this is not something that we have discussed at this point. And as we move forward, I think what would be helpful is to have a consultant with a lot of experience in crunching these numbers to look at multiple angles for the JPA members to consider. But, there’s a lot of underlying policy decisions associated with the funding plan, as you peel back each layer of the onion, you find a different aspect to the funding plan that needs to be considered by the Board. So what we hope is to get some of these policy issues out in front of the members, in advance, and whether or not that means that it triggers timelines, I can’t answer that question as we haven’t discussed it at this point.

Board Member Greg Simay stated, if the financial plans for the LMR part and the LTE parts are separate, then the Board would have the option of amending the Bylaws, so that it could commit firmly to its LTE commitment without necessarily committing firmly to LMR. That would hopefully simplify the problem by allowing an agency to consider the merits of each separately. The agency may feel comfortable with leaping in to the LMR, five or six years down the road, but also would feel comfortable on a separate basis leaping into LTE in the next 6 months. Chairman Bill stated, we talked about that policy discussion, which is something we’re going to have to schedule soon Counsel Amanda Drukker stated, "you’ve mentioned the need to fully look at all those issues and how that has to happen. Mr. Simay mentioned amending the Bylaws; I think that might be a JPA issue, so we need to really look at the mechanics of how all that will happen." Board Member LeRoy Jackson stated, even those discussions of starting to do the preliminary work, but before it comes back I think we have to address all of these issues before the Board takes action on them. Chairman Bill stated he agreed. Pat Mallon stated, we certainly don’t

anticipate developing a funding plan in a vacuum, and then presenting it without it being an interactive process with the Board.

VIII. CLOSED SESSION REPORT – (None)

IX. MISCELLANEOUS – (None)

X. PUBLIC COMMENTS – (None)

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

8. Project Funding

9. Project Risk Controls

VII. ADJOURNMENT

Chair Bill Fujioka announced that the next meeting is scheduled for Thursday, October 3, 2013, at 9:00 a.m., at the Grace E. Simons Lodge, then adjourned the meeting at 9:40 a.m.

Los Angeles Regional Interoperable Communications System

PROJECT DESCRIPTION

Events of 9-11-01 have highlighted the need for first responders to be able to communicate with each other. Emergency communications primarily address local jurisdictional needs. Most agencies utilize separate radio towers and equipment, often co-located as seen here, and separate radio frequencies.

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 construct, own, operate, and maintain a regional, interoperable public safety radio system. 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 will utilize a pool of 109 existing communications sites and (2) Long Term Evolution (LTE) broadband data network will utilize a pool of 255 existing communications sites. Both systems will comply with CEQA and NEPA standards.

Project and Construction Management Services will provide network, infrastructure, project, and advisory services across 5 program phases 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, Ste 200
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 - TBD

LA-RICS

Monthly Report No. 18
For September, 2013
Submitted September 26, 2013

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AGENDA ITEM 4

PROGRAM DASHBOARD

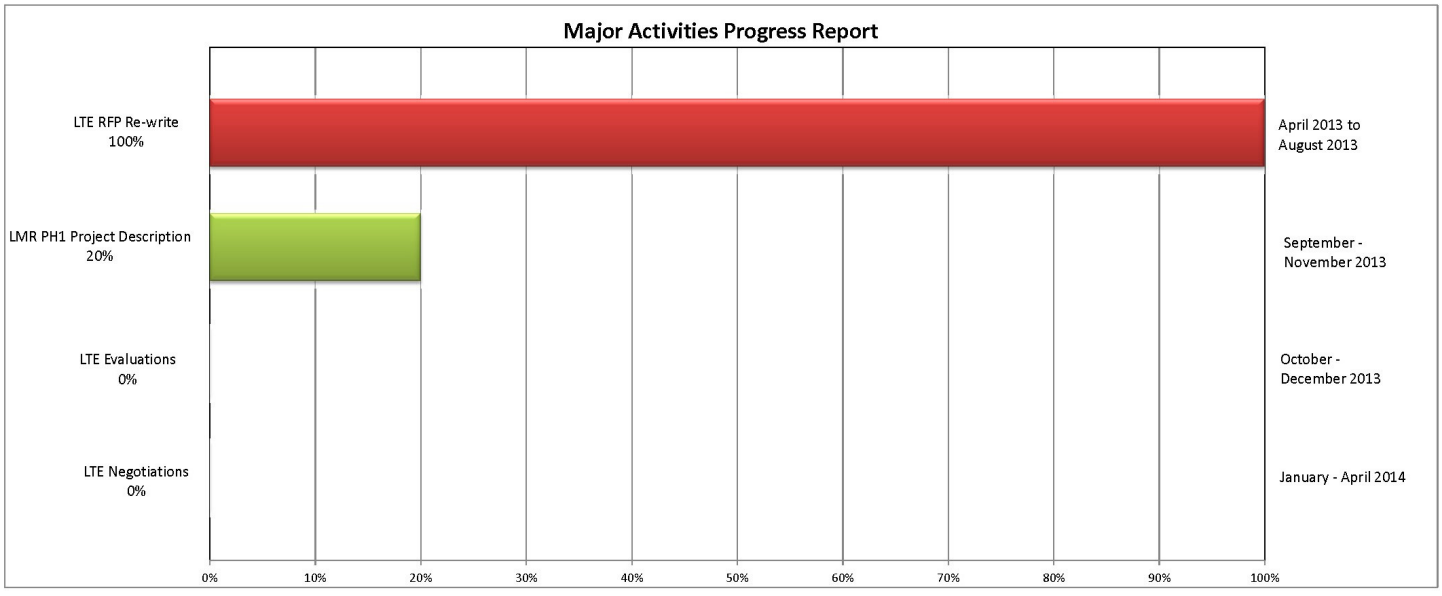
Category	Rating	Change	Comments
Safety		No Change	
Quality		No Change	
Schedule		No Change	Tight schedule to shelter grant funding.
Cost/Budget		No Change	Grant funding at risk.
Risk		No Change	
Project Staffing		No Change	

RISK REGISTER

Title	Assigned To	Status	Impact	Category	Created Date	Due Date
700 MHZ	Pat Mallon	Active	High	Category 1	07/26/2012	09/06/2012
Potential loss of grant funding	Pat Mallon	Active	High	Category 1	08/29/2012	10/04/2012
Environmental requirements for LTE sites used in the LMR RFP	Nancy Yang	Active	Medium	Category 1	09/18/2012	
LMR & LTE site use agreements need to be executed	Nancy Yang	Active	Medium	Category 1	09/18/2012	

ACTIVITIES STATUS

ITEM	STATUS	DUE DATE
1. LTE RFP RE-WRITE	1. COMPLETED	1. AUGUST, 2013
2. LMR PH1 PROJECT DESCRIPTION	2. PLANNED	2. NOVEMBER, 2013
3. LTE EVALUATIONS	3. PLANNED	3. DECEMBER, 2013
4. LTE NEGOTIATIONS	4. PLANNED	4. JANUARY - APRIL, 2014



AGENDA ITEM 4

ACTIVITIES COMPLETED IN SEPTEMBER 2013

LMR

- **Conducted LMR kickoff activities including LMR Program kickoff meetings with Motorola on 11 Sep 13.**
- **Conducted environmental working meetings with the Environmental consultant, Motorola, and LA-RICS staff.**
- **Participated in meetings with Environmental and LA-RICS staff representatives with NTIA regarding the Biological Assessment for consultation with various Federal Agencies as required for the NEPA document.**
- **Provided outreach support for LA-RICS presentations for the cities of Bell Gardens, Beverly Hills, Downey, Hawthorne, Montebello, Monterey Park, Pomona, and Torrance as well as Los Angeles County Supervisorial District 5 and Los Angeles County Supervisorial District Staff .**
- **Provided SharePoint training to LA-RICS Staff.**
- **Conducted various meetings with Motorola to formulate the procedure and development of the Communications, Documentation, Q/A, and Risk Management Plans.**
- **Established project controls for reporting, reviewing, and finalizing deliverables, including weekly and monthly reports.**
- **Established foundation for the Integrated Master Schedule (IMS).**
- **Continued planning for the early deployment activities.**

LTE

- **Participated in the SME's briefing in support of the evaluation process for LTE proposals due 3 October 13.**
- **Responded to prospective proposer questions.**
- **Participated in LTE meetings to coordinate responses to perspective vendors questions in response to the LTE RFP.**
- **Reviewed and provided comments on various environmental documents in support of the LTE Environmental Assessment (Project Description and Purpose and Need statement) for NTIA submittal.**

ACTIVITIES PLANNED FOR OCTOBER 2013

LMR

- **Continue activities for the environmental work to be completed by the Environmental consultant.**
- **Review initial Project Description site packages.**
- **Review first drafts of Program Management Plan.**
- **Finalize the staffing plans to meet the anticipated design & construction schedules.**
- **Initiate the file structure naming convention for SharePoint and set up project documents and control plan.**
- **Continue Outreach support for LA-RICS stakeholder presentations.**
- **Engage public relations/outreach firm to support outreach efforts.**
- **Begin Design process**

LTE

- **Support the LTE evaluation procurement process as required including participation in the RFP evaluation process by providing SME support.**

AGENDA ITEM 4

LA-RICS MASTER CALENDAR

LA-RICS

LA-RICS Master Calendar

As of Monday, 4 October 2013

October 2013 (Proposed)						
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
		1	2	3 0900 - JPA BOD Mtg	4	5
6	7	8 900 – WESM Mtg 1000 – LMR Weekly Status Mtg 1300 – LMR Weekly Site Meeting	9	10	11	12
13	14	15 900 – WESM Mtg 1000 – LMR Weekly Status Mtg 1300 – LMR Weekly Site Meeting	16	17	18	19
20	21	22 900 – WESM Mtg 1000 – LMR Weekly Status Mtg 1300 – LMR Weekly Site Meeting	23	24	25	26
27	28	29 900 – WESM Mtg 1000 – LMR Weekly Status Mtg 1300 – LMR Weekly Site Meeting	30 1000 – LMR Monthly Status Mtg	31		

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AGENDA ITEM 4

LTE UPDATES

LTE TECHNOLOGY

- **Working through LTE procurement process.**

LMR UPDATES

LMR TECHNOLOGY & DELIVERABLES

- **Weekly Status Meetings (WSM) will be conducted on Tuesdays from 1000 - 1200.**
- **Monthly Status Meetings (MSM) will be conducted on the last Wednesday of each month from 1300 - 1500.**

Deliverables

- **Received initial draft of Integrated Master Schedule (IMS) on 20 Sep 14.**

LTE SITES/CIVIL

- **To be reported following the LTE vendor selection.**

LMR SITES/CIVIL

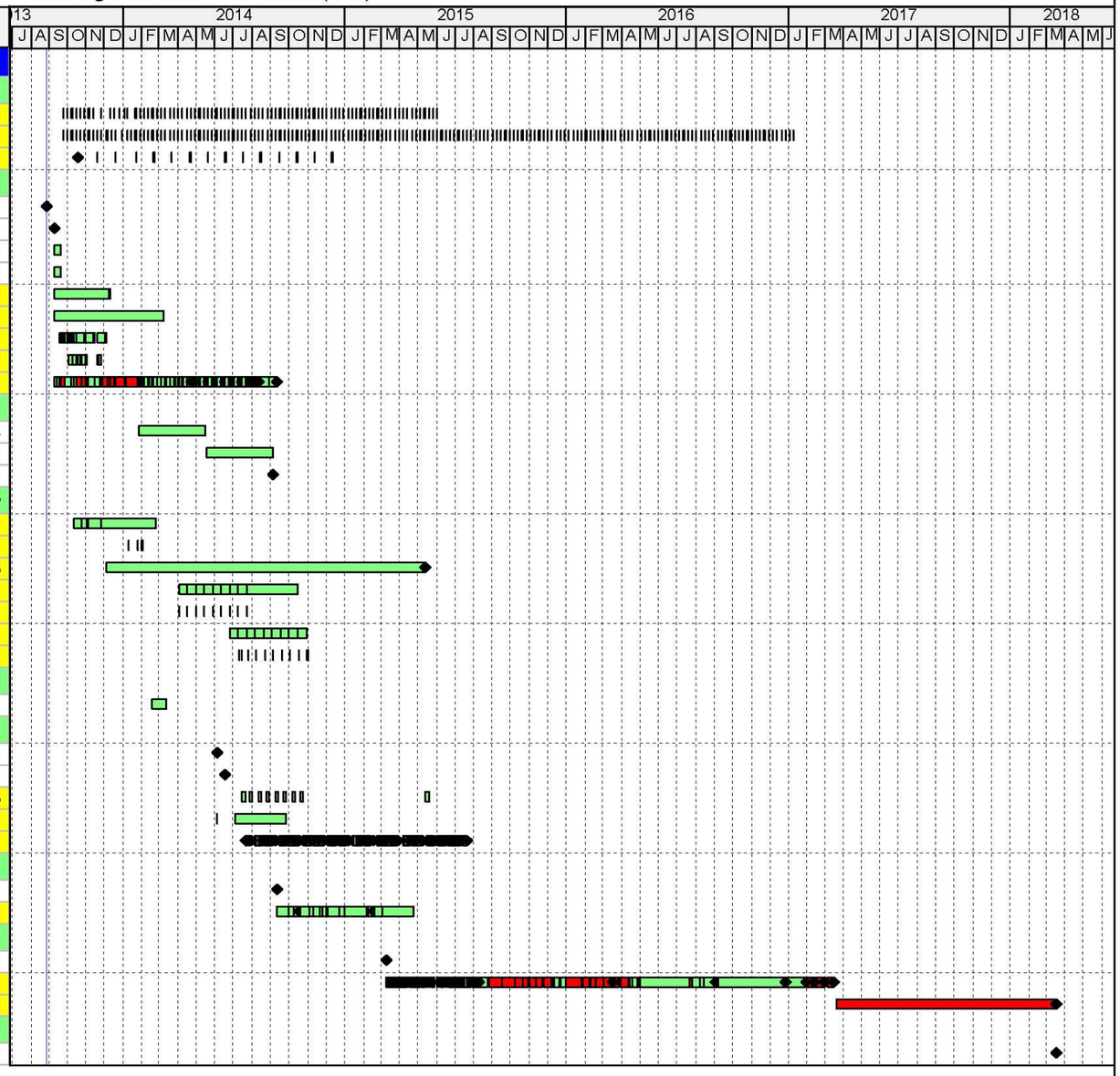
- **Initial site walks were conducted for 6 RF Sites for the PD.**
- **All LMR sites will be included in the Project Description package.**
- **Conducting site-by-site analysis of required activities.**
- **Moving forward with proof of concept deployment.**

AGENDA ITEM 4

LA-RICS MASTER SCHEDULE

LA RICS MSI LMR Integrated Master Schedule (IMS)

Activity ID	Activity Name	Duration	Start	Finish
LA RICS MSI LMR Integrated Master Schedule (IMS)		1183	28-Aug-13	19-Mar-18
Phase 0 - Project Admin & Reporting		856	24-Sep-13	10-Jan-17
Bi-Weekly Project Meetings		436	24-Sep-13	02-Jun-15
Weekly Reports		856	24-Sep-13	10-Jan-17
Monthly Reports		295	18-Oct-13	11-Dec-14
Phase 1 - LMR System Design		265	28-Aug-13	10-Sep-14
LMR_389	LA-RICS LMR Project start / Contract Signed	0	28-Aug-13	
LMR_390	Notice to Proceed Phase 1	0	09-Sep-13	
LMR_392	Base.22.3.2 Procure and Deliver Performance Bond fc	10	09-Sep-13	20-Sep-13
LMR_391	Base.22.2.1 Procure and Deliver Liability Insurance (G	10	09-Sep-13	20-Sep-13
Project Management Plan		65	09-Sep-13	10-Dec-13
LA-RICS Deliverables		125	09-Sep-13	07-Mar-14
Project Descriptions		53	18-Sep-13	03-Dec-13
EA Preparation		39	02-Oct-13	25-Nov-13
Design Review		258	09-Sep-13	10-Sep-14
Phase 1a - Licensing Process		160	27-Jan-14	05-Sep-14
LMR_1547	License Preparation	80	27-Jan-14	16-May-14
LMR_1548	FCC Licensing Processing	80	19-May-14	05-Sep-14
LMR_1549	B.1.6 FCC License and Application Forms - FCC Licer	0		05-Sep-14
Phase 1b - Submit Required Permits & Approvals		409	11-Oct-13	13-May-15
Submit & Receive NEPA Approval		92	11-Oct-13	24-Feb-14
CEQA Exempt Sites		16	10-Jan-14	03-Feb-14
Submit CEQA Package (CEQA non-Exempt Sites)		374	03-Dec-13	13-May-15
Zoning Permit		140	02-Apr-14	14-Oct-14
Site Design Review Packages 75% Zoning Submittal by Site		81	02-Apr-14	23-Jul-14
Building Permits		92	25-Jun-14	30-Oct-14
Receive Permit Approvals		81	11-Jul-14	31-Oct-14
Phase 1c - Inventory & Maintenance Subsystem configur		17	18-Feb-14	12-Mar-14
LMR_1853	B.1.15 Inventory and Maintenance Tracking Subsystem	17	18-Feb-14	12-Mar-14
Phase 2 - Site Construction		295	03-Jun-14	21-Jul-15
LMR_1855	Notice to Proceed Phase 2 Received for Materials	0		03-Jun-14
LMR_1856	Notice to Proceed Phase 2 Received for Sites	0		17-Jun-14
Notice to Proceed Phase 2 for Sites (Broken out by Site #)		223	14-Jul-14	20-May-15
Site Construction Materails		82	04-Jun-14	25-Sep-14
Site Build / Modifcations		262	21-Jul-14	21-Jul-15
Phase 3 - Supply Telecommunications System Compone		161	10-Sep-14	23-Apr-15
LMR_3893	Notice to Proceed Phase 3	0		10-Sep-14
Manufacturing / Staging / Site Development and Test		161	11-Sep-14	23-Apr-15
Phase 4 - Telecommunications System Implementation		790	09-Mar-15	19-Mar-18
LMR_3921	Notice to Proceed Phase 4	0		09-Mar-15
Implementation & Testing		529	10-Mar-15	17-Mar-17
Warranty - 12 months		261	20-Mar-17	19-Mar-18
Phase 5 - System Maintenance		0	19-Mar-18	19-Mar-18
LMR_4965	System Ready for Maintenance Period	0		19-Mar-18



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Page 1 of 1

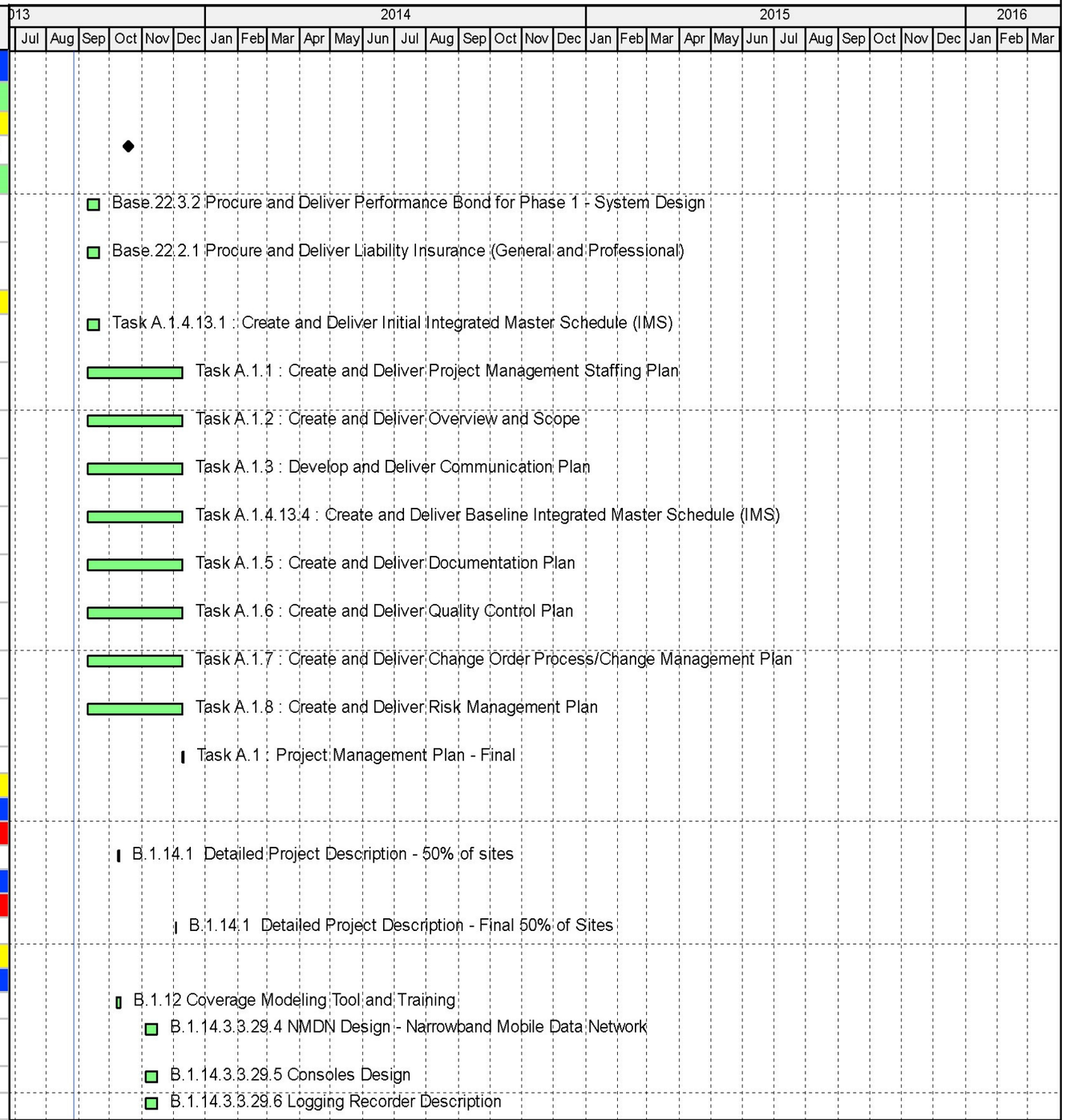
TASK filter: All Activities

AGENDA ITEM 4

LA-RICS DELIVERABLE SCHEDULE

LA RICS MSI LMR Integrated Master Schedule (IMS)
Initial IMS - Deliverables List

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
LA RICS MSI LMR Integrated Master Schedule (IMS)					
Phase 0 - Project Admin & Reporting					
Monthly Reports					
LMR_370	Project Management for Phase 1 - System Design Mo	0	18-Oct-13		1180
Phase 1 - LMR System Design					
LMR_392	Base.22.3.2 Procure and Deliver Performance Bond for Phase 1 - System Design	10	09-Sep-13	20-Sep-13	289
LMR_391	Base.22.2.1 Procure and Deliver Liability Insurance (General and Professional)	10	09-Sep-13	20-Sep-13	289
Project Management Plan					
LMR_15190	Task A.1.4.13.1 : Create and Deliver Initial Integrated Master Schedule (IMS)	10	09-Sep-13	20-Sep-13	288
LMR_15160	Task A.1.1 : Create and Deliver Project Management Staffing Plan	64	09-Sep-13	09-Dec-13	234
LMR_15170	Task A.1.2 : Create and Deliver Overview and Scope	64	09-Sep-13	09-Dec-13	234
LMR_15180	Task A.1.3 : Develop and Deliver Communication Plan	64	09-Sep-13	09-Dec-13	234
LMR_15200	Task A.1.4.13.4 : Create and Deliver Baseline Integrated Master Schedule (IMS)	64	09-Sep-13	09-Dec-13	234
LMR_15210	Task A.1.5 : Create and Deliver Documentation Plan	64	09-Sep-13	09-Dec-13	234
LMR_15220	Task A.1.6 : Create and Deliver Quality Control Plan	64	09-Sep-13	09-Dec-13	234
LMR_15230	Task A.1.7 : Create and Deliver Change Order Process/Change Management Plan	64	09-Sep-13	09-Dec-13	234
LMR_15240	Task A.1.8 : Create and Deliver Risk Management Plan	64	09-Sep-13	09-Dec-13	234
LMR_15980	Task A.1 : Project Management Plan - Final	5	10-Dec-13	10-Dec-13	234
Project Descriptions					
Week 2					
Deliver Project Description to LA-RICS					
LMR_513	B.1.14.1 Detailed Project Description - 50% of sites	5	09-Oct-13	09-Oct-13	275
Week 5					
Deliver Project Description to LA-RICS					
LMR_542	B.1.14.1 Detailed Project Description - Final 50% of S	1	03-Dec-13	03-Dec-13	239
Design Review					
Coverage Design					
LMR_565	B.1.12 Coverage Modeling Tool and Training	5	07-Oct-13	11-Oct-13	274
LMR_572	B.1.14.3.3.29.4 NMDN Design - Narrowband Mobile Data Network	10	04-Nov-13	15-Nov-13	39
LMR_572_	B.1.14.3.3.29.5 Consoles Design	10	04-Nov-13	15-Nov-13	39
LMR_573	B.1.14.3.3.29.6 Logging Recorder Description	10	04-Nov-13	15-Nov-13	39



AGENDA ITEM 4

LA-RICS

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

2525 Corporate Place, Suite 200
Monterey Park, California 91754
(323) 881-8291

PATRICK J. MALLON
EXECUTIVE DIRECTOR

October 3, 2013

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

Dear Directors:

ACCEPTANCE OF SERVICE CONTRIBUTED BY COUNTY OF LOS ANGELES – FUNDING PLAN

RECOMMENDED ACTION
It is recommended that your Board accept the contribution of the County of Los Angeles of the service of PMC, an independent consultant, for development of the LA-RICS funding plan.

BACKGROUND
At the LA-RICS Finance Committee Special Meeting of September 12, 2013, committee members heard a presentation from PMC, an independent consultant currently retained by the County of Los Angeles, regarding their proposed solution for development of the LA-RICS funding plan.

At the LA-RICS Finance Committee Special Meeting of September 26, 2013, committee members reviewed and approved PMC's Scope of Work (SOW, which will be substantially similar to the form attached) for the development of the LA-RICS funding plan. In addition, the committee approved recommending acceptance of services as a contribution from the County of Los Angeles. The services will include provision of the following tasks, as detailed in the attached SOW:

- Project-Based Research
- Stakeholder Decision-Making Process
- Development of Fair Share Cost Allocation
- Finance Plan
- Meetings

FISCAL IMPACT/FINANCING
There is no fiscal impact.

FACTS AND PROVISIONS/LEGAL REQUIREMENT
The Authority's counsel has reviewed the recommended actions.

Respectfully submitted,

PATRICK J. MALLON
EXECUTIVE DIRECTOR

PJM:soc

c: Counsel to the Authority

Attachment

AGENDA ITEM 6

Scope of Services

Based on the meeting held on September 12, 2013 with the LA-RICS Finance Committee and discussions with JPA and County staff, PMC has prepared a scope of work as provided herein. It is understood that the objectives of this project are to:

1) identify an equitable (fair share) cost allocation for all members of the JPA,
2) provide options to allow for a flexible finance plan, which could include incentives to buy in early as well as potential service options,
3) develop the finance plan based on stakeholder input from the JPA member jurisdictions.

The general tasks to be performed by PMC or in collaboration with LA-RICS Finance Committee and project staff include: project and stakeholder research, facilitated stakeholder decision-making process, equitable (fair share) cost allocation development, draft and final finance plan development, and coordination meetings.

The work program presented herein represents our initial understanding of the required tasks, and our approach to meeting project objectives. Estimated costs for this program are also addressed herein with certain limitations as noted. This work plan may be modified to accommodate additional needs identified by the LA-RICS JPA, the County, or PMC.

Task 1 – Project-Based Research
PMC will conduct project related research required to accomplish the project objectives.

Task 1.1 – Background Data Collection related to LA-RICS
The Consultant will research necessary relevant materials to become well-versed in the proposed LA-RICS system including project history, implementation strategies, current agency systems, limitations, and service needs. As a component of this research, the PMC Team will develop an understanding of the different agencies and capabilities within the JPA to help further define the baseline understanding of these agencies and how well they integrate into the overall goals for LA-RICS.

The Consultant will also review comparable systems and cost methods for large scale interagency public safety communication technology. This will include on-line research and discussions with industry personnel. The Consultant will identify each system's applicability to the LA-RICS system. Examples of existing systems include the Los Angeles area Interagency Communications Interoperability System (ICIS), *FIRESCOPE Fire Fighting Resources of California Organized for Potential Emergencies, the Orange County Coordinated Communications Center (Control One) and Marin Emergency Radio Authority (MERA).*

Assumptions:

- LA-RICS will provide access to relevant project data and information.

Task 1.2 –Agency Survey
The Consultant will work with LA-RICS staff to develop an agency survey to understand needs and preferences for the fair share allocation. This survey will serve as a baseline for collecting information needed to draft a funding plan.

Assumptions:

- Survey will be online
- Survey will be announced by LA-RICS Board to all JPA members
- Willing participation from JPA members to complete the survey

Task 1 Deliverables:

- Online survey with digital distribution
- Survey report based on all information collected

Task 1 Total Approximate Level of Effort and Cost:
Hours: 528
Cost: $83,570

Task 2 – Stakeholder Decision-Making Process
PMC will develop and facilitate a decision-making process for the development of the LA-RICS finance plan.

Task 2.1 – Stakeholder Meetings
The Consultant will plan, organize, and provide logistical support for as many as three (3) Stakeholder Meetings. The Consultant will collaborate with LA-RICS and County staff to determine a format for the meetings that will support consensus-building among stakeholders.

Assumptions:

- Stakeholder Meetings will be facilitated by up to five (5) PMC staff members.
- Meetings will be attended by all willing members of the JPA and member agencies.
- Facilities used for meetings will be secured and supplied by LA-RICS. Any facility fees will be paid by LA-RICS.

Task 2.2 – Meeting Support Materials
The Consultant will recommend support materials and information to be provided to stakeholders at the meetings consistent with Task 2.1. The Consultant will develop materials to be used as aids during the stakeholder meetings. Example materials include summaries of finance plans used in similar projects, information about each jurisdiction, maps, and flowcharts/graphics.

Assumptions:

- Information previously prepared by LA-RICS would be available for use if deemed appropriate.
- New information on different agencies will be based on readily available data from the Southern California Association of Governments, the California Contract Cities Association and other government data sets.

Task 2 Deliverable:
The Consultant will prepare up to three (3) meeting support packages. Each package will include:

- A PowerPoint presentation file, draft and final for review by LA-RICS prior to the meetings.
- Visual aids and other materials used for consensus-building activities.
- Summary of the discussion, questions, and suggestions provided by stakeholders.
- Documentation of action items.

Task 2 Total Approximate Level of Effort and Cost:
Hours: 520
Cost: $72,440

Task 3 Development of Fair Share Cost Allocation

PMC will develop the methodology and required inputs for a fair share cost allocation among the expected LA-RICS system participants.

Task 3.1 – Review Information from Background Data Collection and Findings from Stakeholder Meetings
The Consultant will review background data and input received from stakeholder meetings describing potential parameters that will frame the financial modeling process. The Consultant will gain an understanding of local agencies' concerns regarding costs of the program, among other issues. Qualitative and quantitative criteria to determine equity will be developed and discussed by the Consultant with the stakeholders during the outreach period. These findings, combined with research conducted for comparable systems, will further identify the opportunities and constraints of model development.

Task 3.2 - Assign Cost to Fixed Overhead and Variable Intensity of Use Components
Working with the JPA, the Consultant will gather cost estimates for both LMR and LTE systems and analyze hard and soft costs applicable to the finance plan. The Consultant will assign costs that will likely be fixed regardless of participation levels, and costs that are variable based on intensity of use. LMR costs covered by the financial model will cover maintenance, and overages not covered by grants. LTE costs covered by the financial model will cover 10% hard match of system infrastructure, as well as maintenance, construction overages, and data airtime costs. The assignment of fixed and variable costs will enable certain costs to be applied to all system users, and other costs to be allocated based on participation.

Assumptions:
- The cost allocation method will provide a framework for the model development and finance plan described in the next task.

Task 3 Deliverable:
- Working paper describing potential cost allocation method(s) based on the tasks described.

Task 3 Total Approximate Level of Effort and Cost:
Hours: 305
Cost: $52,700

Task 4 Finance Plan

Task 4.1 - Develop Preliminary Cost Allocation Model
Based on the factors described in Task 3, the Consultant will develop a preliminary cost allocation model that will test and validate factors and variables. The modeling process, to be conducted in spreadsheet format, includes generating scenarios and correlating revenue projections to potential cost allocation parameters. The scenarios would include different levels of system need and potential usage based on stakeholder feedback, which is a key component to developing alternative rate pricing structures.

The Consultant will generate short-term and long-term financial plans showing cash flow projections based on reasonably expected operations costs. Projections of operating costs will necessarily involve assumptions of system usage, initial and growth in participation, and cost inputs from the system provider. This task will involve coordination with the LA-RICS system provider/operator, as the anticipated level of participation will have a significant influence on both fixed and variable costs.

Task 4.2 – Conduct Sensitivity Analysis
Using the feedback received during stakeholder research process, the Consultant will develop sensitivity analysis to test various pricing structures that would provide incentives for early buy in and their effect on agency participation. The Consultant will evaluate the investment in "excess system capacity" as a basis for recouping costs from future participants.

Task 4.3 – Review Model with LA-RICS and Obtain Feedback
The Consultant will review the methodology and modeling input with the LA-RICS Cost Allocation Working Group and/or Finance Committee. The Consultant will obtain feedback to incorporate into the preliminary working financial plan. This process is perceived as an iterative process with LA-RICS involving modifications/adjustments based on input by the groups.

Task 4.4 – Finalize Cost Model
Following development of draft and revised draft cost models, a final model and finance plan will be developed that will provide a rate pricing structure that meets an objective of providing equity to the participants. The finance plan will account for the timing of buy-in to the system, level of participation, and local operating conditions. With the option for potential agencies to opt out of the plan, the Consultant will be available to make further modifications and adjustments as warranted, dependent on the decisions made the local agencies.

Task 4 Deliverable:

- Rate pricing structure through employing a cost allocation model. The rate structure will constitute a finance plan that incorporates scenarios that allow flexibility for modifications based on expected agency participation and intended levels of use.

Task 4 Total Approximate Level of Effort and Cost:
Hours: 475
Cost: $68,850

Task 5 – Meetings
The Consultant will attend regular meetings with the LA-RICS Staff, JPA Finance Committee Meetings, and JPA Board of Directors Meetings, as needed throughout the course of the project.

Task 5.1 - Conduct Weekly Meetings with LA-RICS and County Staff
The Consultant will attend weekly meetings with LA-RICS staff to discuss the progress of all tasks and obtain additional direction from staff. The Consultant will provide an overall work plan, meeting agendas and meeting minutes for each of the meetings. The agendas will be provided to LA-RICS at least two (2) working days before each meeting. Meeting minutes will be provided within three (3) working days after each meeting.

Assumptions:

- Weekly meetings will be attended by at least two Consultant team members.
- Meetings can occur over the phone when appropriate.
- Meetings are anticipated to occur over the course of 20 weeks.

Task 5.2 – Attend JPA Meetings
The Consultant will attend JPA Board of Director and Finance Committee meetings with LA-RICS leadership to discuss the progress of all tasks and obtain additional direction.

Assumptions:

- JPA meetings will be attended by at least two Consultant team members.
- We anticipate one meeting per month per committee (October – February, 10 meetings total).
- We will accommodate special meetings as necessary (up to 4).
- PMC will be notified of each meeting as information is available.

Task 5 Deliverables:

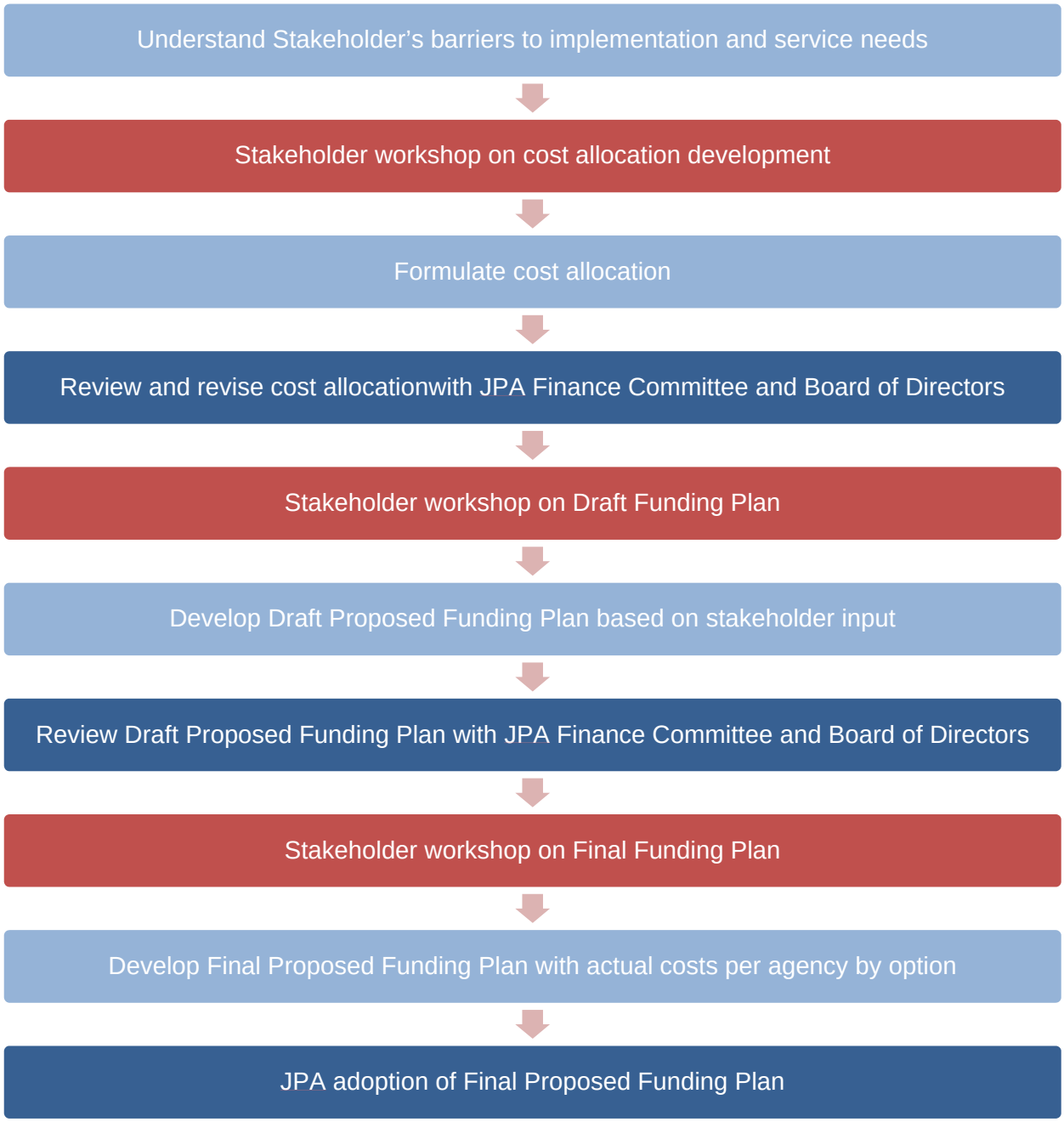
- 20 Staff Meeting Agendas
- 20 Staff Meeting Minutes

Task 5 Total Approximate Level of Effort and Cost:
Hours: 752
Cost: $132,000

TOTAL APPROXIMATE FEE FOR ALL TASKS: $409,560

Project Schedule

Our scope of work has been developed to support the following process approach to achieve project objectives.



Stakeholders
PMC
JPA Leadership

We anticipate that each deliverable will be developed under the following schedule. Adherence to this schedule is contingent on a committed and willing stakeholder group and timely response to information needs.

Deliverable	**Completion Date**
Online survey	October 15, 2013
Survey report	November 18, 2013
SWOT Analysis	November 18, 2013
Meeting #1 Support Package	November 18, 2013
Stakeholder Meeting #1	November 21, 2013
Cost Allocation Working Paper	December 16, 2013
Meeting #2 Support Package	December 16, 2013
Stakeholder Meeting #2	December 19, 2013
Draft Funding Plan	January 27, 2014
Stakeholder Meeting #3	January 30, 2014
Final Funding Plan	March 3, 2014
Coordination Meetings (agendas, summaries)	Weekly

Pricing Schedule

Hourly Personnel Charges *

Principal	$225
Project Manager	$185
Municipal Finance Manager	$195
Senior Finance Analyst	$150
Senior Planner/ Project Analyst	$150
Director, Community Engagement and Facilitation Services	$175
Senior Planner/Facilitator	$120
Assistant Planner/Project Analyst	$100
Graphics/GIS/Technical Editor	$95
Administrative Support	$65

Subcontractor fees are billed at cost plus 10%. (Note: Subcontracting requires advance written approval pursuant to Section 8.40 of the Contract.)

Service shall be provided on a time and materials basis for the not-to-exceed amount of $409,560 based on this Pricing Schedule. This maximum not-to-exceed amount of $409,560 includes direct expenses incurred. Payment shall be in arrears in a manner and subject to the conditions as set forth in Section 5.0, CONTRACT SUM, of this Contract.

Reimbursable expenses shall include the actual expenditures made or incurred in the performance of services under this Contract. Reimbursable expenses shall be passed through without mark-up, and all travel related expenses shall be in accordance with County's Travel Reimbursement Guidelines. Expenses will include, but shall not be limited to, the following: travel, lodging, postage, deliveries, document reproduction for reports, mileage, long distance telephone charges, and other normal and reasonable expenses required to complete the services described in the attached Statement of Work.

<u>Overhead Expenses</u>

Expenses, such as routine in-house document reproduction and scanning, facsimile/telecopier, secretarial or clerical time or overtime, word processing, office supplies, time responding to invoice audits or inquiries, and other ordinary expenses which the contractor incurs to maintain its offices are overhead expenses and are **not** reimbursed by the County.

<u>County's Travel Expense Reimbursement Rates</u>

Lodging: Maximum of $200.25 per night plus all taxes for a single occupancy hotel accommodation. The original hotel receipt must be presented with the claim. Reimbursement without a receipt will be $20.00 per night.

Mileage Rate: 53 cents per mile for all miles driven.

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

2525 Corporate Place, Suite 200
Monterey Park, California 91754
(323) 881-8291

PATRICK J. MALLON
EXECUTIVE DIRECTOR

October 3, 2013

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

Dear Directors:

APPROVE AMENDMENT TO JACOBS PROJECT MANAGEMENT CO., CONTRACT FOR PROJECT MANAGEMENT SERVICES

SUBJECT

Authorize the Executive Director to execute a contract amendment with Jacobs Project Management Co. (Jacobs).

RECOMMENDED ACTION

It is recommended that your Board:

Authorize the Executive Director to execute a contract amendment with Jacobs, substantially similar to the attached form, to:

a. Separate the Scope of Work into two separate projects, defined as the Land Mobile Radio (LMR) System project and the Long Term Evolution (LTE) System project; and
b. Increase the maximum contract sum of by $4,889,427, to include new scope of work.

BACKGROUND

Your Board originally authorized the Executive Director to execute the contract with Jacobs for project management services on March 29, 2012. Since that time, the Executive Director has exercised delegated authority granted by your Board on March 29, 2012, to execute Amendment Nos. 1, 2, 4, 5, and 6 to the Jacobs contract, which moved staff hours from subsequent phases of the Jacobs contract to the preliminary phase in order to allocate funds for Jacobs' performance of certain work allocated to the subsequent phases. These amendments did not increase the scope of services or maximum contract sum. Additionally, on July 11, 2012, your Board authorized the Executive Director to execute Amendment No. 3 to the Jacobs contract which increased the maximum contract sum by $1,546,933 in order to add additional scope of work.

Amendment No. 7 is requesting an increase in the maximum contract sum in order to provide (a) extended project management services that will be required by the Land Mobile Radio ("LMR") System integrated master schedule and (b) increased assistance in the areas of outreach, environmental and administrative support. Additionally, Amendment No. 7 will make amendments to the Jacobs contract to reflect that the LMR System and Long Term Evolution broadband mobile data system (or Public Safety Broadband Network) are proceeding as separate projects.

AGENDA ITEM 7

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

The purpose of the recommended action is to increase the scope of services under the Jacobs contract in order to engage Jacobs to provide outreach, administrative and environmental support as well as account for an extended schedule in line with the executed LMR contract.

FISCAL IMPACT/FINANCING

The amendment will increase the maximum contract sum under the Jacobs contract by $4,889,427 to a total of $27,307,585. All contract costs for services rendered under this amendment for the LMR system will be reimbursable under the Urban Areas Security Initiative (UASI) and State Homeland Security Grant Program (SHSGP) grant awards from the Department of Homeland Security. Please note that although the UASI and SHSGP grant funds have been allocated to the Authority by the UASI Approval Authority and SHSGP Approval Authority, a sub-recipient agreement is necessary with the City of Los Angeles and the County of Los Angeles to receive grant funds. Staff is working with each respective grant administrator to finalize sub-recipient agreements.

FACTS AND PROVISIONS/LEGAL REQUIREMENT

The Authority's counsel has reviewed the recommended action.

AGREEMENTS/CONTRACTING

Upon your Board's approval of the recommended action, on behalf of the Authority, the Executive Director will have authority to execute a contract amendment with Jacobs, substantially similar to the attached form, to incorporate revisions contemplated in the recommended action. The Executive Director will continue to monitor all work, and pay all invoices for the increase in scope of work up to an amount not to exceed $4,889,427. For individual invoices exceeding $500,000, the Executive Director will additionally obtain prior authorization from the Board's Chair, or such person's designee, as is required by the Authority's Fiscal Manual.

Respectfully submitted,

PATRICK J. MALLON
EXECUTIVE DIRECTOR

c: Counsel to the Authority

Attachment

AMENDMENT NUMBER SEVEN TO

AGREEMENT FOR CONSULTANT SERVICES

This Amendment Number Seven ("Amendment No. 7") is entered into by and between the Los Angeles Regional Interoperable Communications System Authority ("Authority") and Jacobs Project Management Co. (Consultant"), effective as of September 5, 2013, based on the following recitals:

1. Authority and Consultant have entered into that certain Agreement for Consultant Services, dated as of March 29, 2012 (together with all attachments and appendices thereto, all as amended prior to the date hereof, the "Agreement").

2. Authority and Consultant desire to amend the Agreement to (a) separate the Scope of Work into two separate projects, defined as the LMR System project and the LTE System project, (b) make revisions to the Agreement as necessary to reflect such two separate projects, (c) add additional work to Phase 1 of the LMR System project and Phase 0 of the LTE System project, as described in Attachment A, Scope of Work, which work was not previously contemplated and constitutes new scope, as described in the attached Attachment A, Scope of Work Environmental Support, and (d) adjust Appendix A-2 (Staffing Plan) and associated resource levels of effort, and additional cost accordingly to reflect two LA-RICS projects, defined as the LMR System project and the LTE System project, as shown in .

3. This Amendment No. 7 is authorized under Paragraph 40 of the Agreement.

NOW THEREFORE, in consideration of the foregoing recitals, all of which are incorporated as part of this Amendment No. 7, and for other valuable consideration, the receipt and sufficiency of which are acknowledged, Authority and Consultant hereby agree as follows:

1. Capitalized terms used herein without definition (including in the recitals hereto), have the meanings given to such terms in the Agreement, as amended by this Amendment No. 7. Unless otherwise noted, section references in this Amendment No. 7 refer to sections of the body of the Agreement, as amended by this Amendment No. 7.

2. Section 1.2 of the Agreement is deleted in its entirety and replaced with the following:

1.2 As used in this Agreement, the following terms have the following meanings:

1.2.1 "Agreement" has the meaning set forth in the recitals.

1.2.2 "Adjustment Date" has the meaning set forth in Section 3 (Consideration).

1.2.3 "Applicable Laws" has the meaning set forth in Section 9 (Compliance with Laws, Including Federal Regulations).

1.2.4 "Authority" has the meaning set forth in the recitals.

1.2.5 "Authority Board" means the Authority's Board of Directors, which is the governing body for the Authority.

1.2.6 "Authority Facility" means each Authority or Member facility or site.

1.2.7 "Authority Materials" has the meaning set forth in Section 11 (Ownership of Authority Materials).

1.2.8 "CEQA" means the California Environmental Quality Act, California Public Resources Code Section 21000 et seq.

1.2.9 "COLA" has the meaning set forth in Section 3 (Consideration).

1.2.10 "Confidential Information" has the meaning set forth in Section 31 (Confidentiality).

1.2.11 "Consultant" has the meaning set forth in the recitals.

1.2.12 "Consultant Key Personnel" has the meaning set forth in Section 8 (Consultant Administration).

1.2.13 "Consultant Program Director" has the meaning set forth in Section 8 (Consultant Administration).

1.2.14 "Consultant Program Manager" has the meaning set forth in Section 8 (Consultant Administration).

1.2.15 "County" means the County of Los Angeles.

1.2.16 "County Code" means the Los Angeles County Code, as currently in effect, and as may be amended from time to time.

1.2.17 "Director" has the meaning set forth in Section 3 (Consideration).

1.2.18 "Funding Resource" means any of the grants, programs, measures, initiatives or other federal, State or local funding resources used to

fund any part of this Agreement or any Authority activity in connection with this Agreement at any time during the term of the Agreement.

1.2.19 "LA-RICS" or "System" has the meaning set forth in the recitals.

1.2.20 "LTE Project," whether or not capitalized, means the project under which the LTE System Contractor will provide the LTE System under the LTE System Contract.

1.2.21 "LTE System," whether or not capitalized, means the Long Term Evolution ("LTE") broadband mobile data system (also known as the Public Safety Broadband Network or the PSBN), to be provided by the LTE System Contractor under the LTE System Contract.

1.2.22 "LTE System Contract," whether or not capitalized, means the contract between the Authority and the LTE System Contractor, as amended from time to time in accordance with the terms thereof.

1.2.23 "LTE System Contractor," whether or not capitalized, means the successful contractor under the LTE System RFP, with which the Authority has or will enter into the LTE System Contract.

1.2.24 "LTE System RFP," whether or not capitalized, means the Request for Proposals for the Public Safety Broadband Network (RFP No. LA-RICS 008), issued August 13, 2013, as amended from time to time in accordance with the terms thereof.

1.2.25 "LMR Project," whether or not capitalized, means the project under which the LMR System Contractor will provide the LMR System under the LMR System Contract.

1.2.26 "LMR System," whether or not capitalized, means the Land Mobile Radio ("LMR") system, to be provided by the LMR System Contractor under the LMR System Contract.

1.2.27 "LMR System Contract," whether or not capitalized, means the contract between the Authority and the LMR System Contractor, as amended from time to time in accordance with the terms thereof.

1.2.28 "LMR System Contractor," whether or not capitalized, means the successful contractor under the LMR System RFP, with which the Authority has or will enter into the LMR System Contract.

1.2.29 "LMR System RFP," whether or not capitalized, means the Request for Proposals for the Land Mobile Radio System (RFP No. LA-RICS 007), issued October 25, 2012, as amended from time to time in accordance with the terms thereof.

1.2.30 "Member" means any public entity that is a member of the Authority.

1.2.31 "Out-of-Pocket Expenses" means expenditures for Consultant's staff transportation, meals, and lodging that are reasonable and necessary in order to perform the work under this Agreement and have been approved in accordance with Section 3 (Compensation), but not to exceed the limits set forth in the then current Chapter 5.40 (Travel and Other Expenses) of the County Code.

1.2.32 "NEPA" means the National Environmental Policy Act, 42 U.S.C. Section 4321 et seq.

1.2.33 "Notice to Proceed" has the meaning set forth in Section 2 (Consultant's Services).

1.2.34 "Parties" has the meaning set forth in the recitals.

1.2.35 "Project Delivery Plan" has the meaning set forth in Attachment A (Scope of Work).

1.2.36 "Proposal" means Consultant's Proposal dated January 19, 2012, submitted in response to the Request for Proposals for Project and Construction Management Services (RFP #LARICSPCM2011), issued by the Authority on December 6, 2011.

1.2.37 "Rate Schedule" has the meaning set forth in Section 3 (Consideration).

1.2.38 "Scope of Work" has the meaning set forth in Section 2 (Consultant's Services).

1.2.39 "Staffing Plan" means Consultant's staffing plan attached as Appendix A-2 to Attachment A (Scope of Work).

1.2.40 "Supplemental Consultant Services" has the meaning set forth in Section 3 (Consideration).

3. Section 2.2 of the Agreement is deleted in its entirety, and replaced with the following:

2.2 In connection with performance of the work under this Agreement, Consultant shall take all necessary precautions for the safety of Consultant's, and its subconsultants', employees and agents, and shall comply with all applicable laws and regulations pertaining to occupational safety and health of Consultant's, and its subconsultants', employees and agents. Nothing contained within this Agreement relieves the Authority, the LMR System Contractor or LTE System Contractor from any responsibilities for the safety of others at Authority Facilities. Nothing contained herein shall be construed to alter or impact the LMR System Contractor's and LTE System Contractor's responsibility for construction means, methods, techniques and procedures, or for the adequacy of safety precautions in connection with the performance of its work. Consultant does not assume the responsibilities of the LMR System Contractor or LTE System Contractor under their respective contracts with the Authority for project site safety or for the means and methods in performing its services.

4. Subsection 1 of Section 8.2 of the Agreement is deleted in its entirety and is replaced with the following:

1. Mobilization team building among Consultant's staff, Authority staff, Member and other stakeholder staff, and other Authority contractors and consultants, including the LMR System Contractor and LTE System Contractor;

5. Section 10.1 of the Agreement is deleted in its entirety and is replaced with the following:

10.1 The term of this Agreement shall commence on the date first set forth above and shall continue until the LMR System Contractor achieves "Final LMR System Acceptance" under, and as defined in, the LMR System Contract. At the Authority's sole option, the term of this Agreement may be extended for up to three (3) additional one-year option periods, which options the Director may exercise by providing written notification to the Consultant at any time prior to the expiration of the then-current term of this Agreement. Upon mutual written agreement of the parties, the term of the Agreement may be further extended.

6. Attachment A (Scope of Work), is deleted in its entirety, and is replaced as follows in the attached Scope of Work to this Amendment No. 7 and incorporated by this reference.

7. Appendix A-2 (Staffing Plan) to Attachment A (Scope of Work) to the Agreement is hereby deleted in its entirety, and is replaced by Appendix A-2 (Staffing Plan) attached to this Amendment No. 7, and incorporated by this reference.

8. Attachment B (Rate Schedule) to the Agreement is hereby deleted in its entirety, and is replaced by Attachment B (Rate Schedule) attached to this Amendment No. 7, and incorporated by this reference.

9. This Amendment No. 7 shall become effective as of the date identified in the recitals, which is the date upon which:

9.1 An authorized officer of Consultant has executed this Amendment No. 7;

9.2 The Authority's Board of Directors has authorized the execution of this Amendment No. 7;

9.3 Los Angeles County Counsel has approved this Amendment No. 7 as to form; and

9.4 The Executive Director of the Authority has executed this Amendment No. 7.

10. Except as expressly provided in this Amendment No. 7, all other terms and conditions of the Agreement shall remain the same and in full force and effect.

11. Consultant and the person executing this Amendment No. 7 on behalf of Consultant represent and warrant that the person executing this Amendment No. 7 for Consultant is an authorized agent who has actual authority to bind Consultant to each and every term and condition of the Agreement, as amended by this Amendment No. 7, and that all requirements of Consultant to provide such actual authority have been fulfilled.

12. This Amendment No. 7 may be executed in one or more original or facsimile counterparts, all of which when taken together shall constitute one in the same instrument.

13. This Amendment No. 7 shall be governed by, and construed in accordance with, the laws of the State of California applicable to agreements made and to be performed within that State.

* * *

AMENDMENT NUMBER SEVEN TO

AGREEMENT FOR CONSULTANT SERVICES

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No.7 to be executed on their behalf by their duly authorized representatives, effective as of the date first set forth above.

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

By: _____

Patrick J. Mallon
Executive Director

JACOBS PROJECT MANAGEMENT CO.

By: _____

Issam Khalaf
Vice President
West Division PMCM

APPROVED AS TO FORM FOR THE LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY:

JOHN F. KRATTLI
County Counsel

By: _____

Amanda M.L. Drukker
Senior Deputy County Counsel

ATTACHMENT A

SCOPE OF WORK

[see attached]

ATTACHMENT A
SCOPE OF WORK

1. INTRODUCTION

Jacobs (Consultant) will work within the framework established by the Los Angeles Regional Interoperable Communications System (LA-RICS) Authority (JPA or Authority) and in accordance with the activities and services surrounding each phase of program deployment for both the LMR and LTE projects. Consultant will provide experienced and dedicated resources to coordinate the planning, designing, developing, supplying, fabricating, constructing, installing, testing, deploying, commissioning, training, and maintenance necessary for successful completion of the LMR and LTE projects. The projects will be delivered using a turnkey method that will involve the LMR System and LTE System Contractors to perform required site design and construction as well as design and installation of the LMR and LTE Systems.

The Consultant will assist the Authority in making plans, projections, and decisions for its communications needs based on full life-cycle planning steps. The Consultant will also assist in developing criteria to determine when a technology refresh of any aspect of the LA-RICS LMR or LTE Systems should be considered. Many of the steps required for a technology refresh need to be coordinated (subscribers, network, backhaul) but some can be performed independently. The Consultant will help the Authority to consider costs, including labor, out-of-pocket expenses, and the trade-off analysis of continuing to modify and maintain the legacy system(s) versus moving to new system(s) at the right time in the future, when developing this criteria.
The Consultant will visit completed and in-progress LA-RICS LMR and LTE transmission sites to evaluate the LMR System and LTE System Contractor's construction methodologies and practices in the conduct of the LA-RICS site builds. Further, they will assist in ensuring that the LMR System and LTE System Contractor's follow construction industry best practices in the construction of Authority LMR and LTE Facilities.

2. SCOPE OF WORK

Consultant shall be the Authority's Project Manager for the LA-RICS LMR and LTE projects. The work to be performed by the Consultant under this Agreement will be assigned by the Authority pursuant to one or more Notices to Proceed issued under and in accordance with Section 2 (Consultant's Services) of the Agreement. The work to be performed by the Consultant includes all work as described in this Scope of Work, to the extent they are not inconsistent with Sections 2.1 and 2.2 below:

2.1 Staffing Plan

The Consultant's staffing plan is attached to this Scope of Work as Appendix A-2 (Staffing Plan). The Consultant will be required to periodically modify the staffing plan with the approval of the Authority throughout the duration of the Agreement to meet changing LA-RICS LMR and LTE project requirements. Any changes to the Consultant's staffing plan shall not result in an increase of the total number of labor hours approved by the Authority as part of this Agreement. At a minimum the Consultant's staff shall include the following:

a. A Program Director who will serve as the Consultant's responsible point of contact for the Consultant's overall performance and compliance with the Agreement;
b. A Program Manager who will (a) be responsible for planning and coordinating all work under the Agreement, (b) serve as the Consultant's primary liaison, (c) manage Consultant's staff, and (d) oversee the delivery of the LMR and LTE LA-RICS projects;
c. A Senior Project Manager to oversee the delivery of the LMR System project;
d. A Senior Project Manager to oversee the delivery of the LTE System project;
e. At least one Systems Manager for the LMR System;

f. At least one Systems Manager for the LTE System;
g. A Document Control and administrative support staff;
h. A ProfessionalProject Scheduler;
i. A ProfessionalCost Estimator;
j. A Contract/Change Order Manager;
k. An experienced Outreach Manager; and
l. Technical Support Staff experienced in the design and implementation of wireless voice and data communications systems.

2.2 General Scope of Services

The Consultant will manage the LA-RICS LMR and LTE projects in accordance with high professional industry standards. The Consultant will be responsible for a combination of essential project and construction management services with respect to the LA-RICS LMR and LTE projects, including, but not limited to, the following functions for each project:

2.2.1 Coordinate the planning, designing, developing, supplying, fabricating, constructing, installing, testing, commissioning, deploying and training for the successful completion of the LA-RICS project, including the LMR System and LTE System.

2.2.2 Develop program procedures for the management of funding authorizations, funding approvals, cost escalation, communications protocols, responsibility matrix, and records management for each project.

2.2.3 Prepare and manage project(s) budgets and schedules. This task includes, but is not limited to the following activities:

a. Provide revenue and cash flow analysis for each project;
b. Develop project phasing alternatives including cost models for each project;
c. Prepare and/or review cost estimates and related cost and contingency analyses for each project;
d. Prepare and/or review critical path method project schedules and related analyses for each project;
e. Prepare and/or review resource-loaded project schedules for each project.
f. Prepare, review, and update a total project cost estimate (TPCE) which includes: land acquisition costs, construction costs, programming/development, plans and specifications, consultant services fees, miscellaneous expenditures, jurisdictional approvals, and services provided by Authority staff for each project. The TPCE for each project shall be updated on a monthly basis; and
g. Review change order requests and associated cost estimates for each project.

2.2.4 Review and assess the each LMR and LTE project's system architecture, design criteria and standards, and coordinate design technical reviews and resolution of technical issues. This task includes, but is not limited to the following activities:

a. Review of architectural, technical, and engineering documents and studies for accuracy, constructability, compliance with project technical requirements, and value engineering;
b. Assist in developing alternate/value engineering design solutions;
c. Evaluate and make recommendations on changes in scope of work and prepare requests for change orders/amendments;
d. Prepare authorization documentation including contract/agreement amendments and notices to proceed;
e. Develop a Quality Assurance/Quality Control plan;

f. Conduct quality control/quality assurance inspections and provide reports; and
g. Manage, coordinate, and validate systems acceptance criteria;
h. Coordinate the implementation of best management practices and, if applicable, CEQA Mitigation Monitoring and Reporting Program in LMR and LTE system construction documents.

2.2.5 Provide document control, administrative support, and information management for the LMR and LTE projects. This task includes, but is not limited to the following activities:

a. Maintain a library for each project of "official" documents including all engineering/as-built documents, project correspondence, and contract documents. The library shall be delivered to the Authority at the completion of the contract. This library shall be available to the Authority for review throughout this contract;
b. Safeguard all Authority and Member property, including proprietary and sensitive information;
c. All documents to be stored in both hard copy and electronic formats.

2.2.6 Administer LMR and LTE project contracts, including, but not limited to, contracts with the LMR and LTE System Contractors and the environmental services consultants. This task includes, but is not limited to the following activities:

a. Review the work of other contractors and consultants, certify percentage of work completed, and make recommendations on the approval of invoices for each project;
b. Review consultants' and contractors' safety programs for compliance with all local, state and federal requirements and regulations;
c. Assist in coordinating and preparing for consultants' and contractors' project status meetings and participate in same;
d. Review and make recommendations on consultant and contractor(s) work product for compliance with LA-RICS project technical and contractual requirements;
e. Evaluate and make recommendations on changes in scope of work and prepare requests for change orders, and contract/agreement amendments for each project;
f. Track, review and make recommendations on contractor requests for information and submittals for each project; and
g. Assist the Authority with the separate procurement of other contractors and consultants to perform other services relating to the LA-RICS Project, including the preparation of a request for proposals, review of proposals, and implementation of the consultant's resultant agreement.

2.2.7 Provide the Authority's staff and Board of Directors with project reports for the LMR and LTE projects. This task includes, but is not limited to the following activities:

a. Prepare and coordinate monthly project status reports which shall include a brief discussion of current activities being carried out; activities to be completed in the upcoming month; review and discussion of project schedule (actual vs. baseline); and review and discussion of the project budget including expenditures to date, and budget remaining, for each project;
b. Provide risk analysis support, quality control audits, value analysis and constructability reviews for each project; and
c. Prepare as-needed reports and materials for LA-RICS project executive staff and Authority's Board of Directors' meetings, and attend such meetings.

2.2.8 Work in a coordinated, cooperative manner with other entities involved in the LMR and LTE projects including Authority staff, other contractors and consultants, government representatives, and other stake

holders involved in the projects. This task includes, but is not limited to the following activities:

a. Provide support in coordination of interagency and public involvement/consensus building, including the preparation of presentation materials, and making presentations;
b. Develop and carry out a comprehensive strategic public relations plan including timelines, products and budget, for each project. This includes ability to work and communicate with public officials, local communities and government and professional organizations; and
c. Coordinate work of other contractors and consultants performing similar public relations function sunder their respective contracts; and
d. Identification, application, coordination, and acquisition of all required permits and approvals for construction of the LMR and LTE projects.

2.2.9 Provide telecommunication appraisal expertise for valuation on all match expenditure for grant funds for each project;

2.2.11 Ensure compliance with applicable rules and regulations. This task includes, but is not limited to the following activities:

a. Ensure that the LMR and LTE System Contractors and other consultants comply with all Federal, California State, County, and local grant fund requirements, and monitor the LMR and LTE System Contractor's and consultants' compliance with same;
b. Ensure the LMR and LTE System Contractors' adherence and compliance to the applicable federal, State and local laws, ordinances, regulations, rules, guidelines, directives, policies and procedures, including, but not limited to, Association Public-Safety Officials (APCO) Project 25 and building codes;
c. Ensure that the LMR and LTE System Contractors adhere and comply with all Federal Communication Commission (FCC) rules and regulations; and
d. Ensure that the LMR and LTE System Contractors adhere and comply with applicable standards and regulations pertaining to the Federal Communications Commission Waiver and subsequent Orders regarding the implementation of a nationwide broadband interoperable network in the 700MHz band.

2.2.12 Assist the Authority with site related activities for both the LMR and LTE projects. This task includes, but is not limited to the following activities:

a. Assist in and coordinate activities relating to acquisition of rights to the LMR and LTE sites;
b. Conduct preconstruction site analysis and planning for the LMR and LTE sites, including considerations for temporary utilities and structures, construction sequencing, construction site coordination, site infrastructure, construction-related traffic analysis, etc.;
c. Coordinate LMR and LTE site activities with utility companies;
d. Coordinate LMR and LTE site geotechnical testing and investigation services;
e. Coordinate LMR and LTE environmental site assessments;
f. Monitor LMR and LTE land surveying services; and
g. Monitor LMR and LTE field engineering investigations, assessments, and reports;

2.2.13 Assist in environmental documentation preparation and processing in conformance with the CEQA and NEPA for both projects, including:

a. Manage consultant in charge of preparing CEQA/NEPA related studies for the LA-RICS projects;
b. Monitor and report on best management practices and NEPA and CEQA mitigation measures (if any) to ensure compliance during LMR and LTE project implementation.

2.2.14 Coordinate project close-out activities including system acceptance and end-user training for both the LMR and LTE projects.

3. PROGRAM REVIEW AND VALIDATION

The Consultant will conduct a series of mobilization interactive planning sessions with the JPA's Executive Director, and key LMR and LTE project personnel to focus on teambuilding, planning, organization, and project kick-off. These sessions will include consideration of stakeholder concerns, obtaining answers to relevant questions, and development of an understanding of roles in supporting other stakeholders. The sessions will be used to establish and document team alignment, roles, responsibilities, and expectations for both projects.

The Consultant's experts in project management, planning, funding, scheduling, and estimating will work with the Authority to address the LMR and LTE projects' unique challenges and begin drafting the Project Delivery Plan (PDP) for each project. Using initial work sessions as the starting point, the Consultant will develop a detailed PDP based on each project's goals and guided by a strategic total project implementation perspective for each project.

The Consultant will deploy the following methodologies and techniques to form a solid foundation for LMR and LTE project execution:

a. Perform team building activities: team orientation, information sharing, establishing lines of communication
b. Transfer existing project information/documentation to Consultant members
c. Confirm project management goals and objective
d. Verify the status of ongoing tasks and define critical issues
e. Confirm lines of authority, organization, roles, and responsibilities
f. Confirm budget and schedule status and funding/cash flow issues
g. Engage in interactive planning to develop master schedule milestones
h. Develop coordinated work plan with all major players
i. Review and develop current project budget and estimates for roll-up into master budget
j. Initialize project management control system
k. Maintain customized, targeted QA/QC in every facet of the project
l. Confirm, verify, and create a project-level communication plan
m. Create and distribute the project-level document distribution plan
n.

4. PROJECT ADMINISTRATION SERVICES

4. 1 Prepare and maintain Master Calendar and Meeting Minutes for the LMR and LTE projects

The Consultant will prepare and maintain the master calendar for each of the LMR and LTE projects, which are key management and administrative control systems that are both proactive and reactive. Project master schedules are used to schedule and document significant events and maintain records on a weekly basis for all project meetings for each project. Minutes of these meetings are recorded and distributed to a designated list of participants. The Consultant will prepare meeting minutes for all meetings designated by the Authority both the LMR and LTE projects and use them to measure and document work progress, identify problems, and the required action(s) for resolution. Upon completing the LMR and LTE projects, these master project calendars, and the record of all meeting minutes for each project, shall serve as an audit trail of all major project events and milestones.

4.2 Provide document control, administrative support, and information management for the LA-RICS LMR and LTE projects

The Consultant will establish and maintain a records management system that will be a project management control system which will fully integrate all project documentation for both the LMR and LTE projects. The web-based systems will be controlled via a secured access availability based on an approved responsibility matrix and communication protocols.

The Consultant shall establish a project file index, for both the LMR and LTE projects, consistent with industry standards, and as approved by the Authority. Consultant shall implement the approved file indexes and maintain a physical record (hard copies) of all project-related documents and records for both projects. These shall be stored in a secured location approved by the Authority. Project documents and records shall be readily available to Authority staff upon request.

4.3 Administer LA-RICS Project Contracts

The Consultant will assist the Authority with the review all project related contracts/agreements, including but not limited to, contracts with both the LMR System Contractor and the LTE System Contractor, and the environmental services consultant, to determine applicability of the contractors' and/or consultant's scope of work with the overall intent of the LA-RICS projects, and to determine all contractually required deliverables. Working closely with the key stakeholders, the Consultant will determine which deliverables in each project require stakeholder review and/or approval. These review and approval cycles will be in the program-level project schedule and will include deliverables (for tracking) in the project management control systems for each project.

4.4 Assist in environmental documentation preparation and processing in conformance with the CEQA and NEPA for both the LMR and LTE projects

The Consultant will review the contract requirements of the Authority's environmental consultant. It will coordinate all contract deliverables with the environmental consultant, working with the Authority to schedule review and comment periods for environmental documentation, review and provide comment to such environmental documentation, and ensure all comments are returned to the environmental consultant and are incorporated in the final documents for both the LMR and LTE projects. The Consultant will assist the Authority and the environmental consultant as needed at public meetings required for approval of the environmental documents. The Consultant will ensure that any routine and regular documents or reports (daily, monthly, by site) required by the contract for either the LMR or LTE projects are complete and submitted. Following approval of the environmental documents, the Consultant will ensure that the best management practices and, if applicable, the CEQA Mitigation Monitoring and Reporting Program is implemented by applicable parties as defined in the environmental documents, for both the LMR and LTE projects.

The Consultant will review and validate LTE Contractor reports for Best Management Practices (BMP), at all LTE sites where the LTE Contractor performs BMP analysis whether Biological or Cultural, and provide the Authority with periodic reports as to LTE Contractor's performance during LTE site construction. These services include, but are not limited to, review of Contractor BMP reports and LTE site inspections to verify that the LTE Contractor is proceeding with construction in compliance with BMP requirements as outlined in the LTE System Contract.

4.5 Prepare and maintain Project Reports and Records for the LMR and LTE projects

Immediately after notice to proceed, as part of the Consultant's integration plan, they will work with the

Authority's key staff to determine the content and regularity of project reports for both the LMR and LTE projects. The Consultant will use the approved communications plan to determine the distribution for drafts as well as final reports for each project. Monthly LMR and LTE project reports will be provide to the Authority with current and accurate information regarding the program master plans. These monthly reports for each project will include:

a. A project budget analysis for each project describing the total project cost, actual expenditures to date, percent of budget spent to date, and budget remaining to complete the project. Identify any potential funding shortfalls and potential ways to mitigate them for each project.
b. A project schedule analysis for each project describing activities completed to date, project percent complete, actual progress versus baseline schedule, upcoming project milestones, activities on the critical path, and activities to be completed in the upcoming month (look-ahead schedule).
c. Future construction activities and early notification of potential operational impacts for each project that require coordination with the Authority
d. Pending action items for each project

With the approval of the Authority, the monthly report can be a single report containing status of both the LMR and LTE projects.

These reports will track float changes in all project areas, flagging those areas where the available float is decreasing (indicating a lack of progress) or increasing (indicating exceeding planned progress) and identifying the factors causing the change. The monthly trend report assists in identifying problem areas before they become critical. Using this report the Consultant can provide a detailed explanation of the root cause(s) for a delay in any area, as well as recommended corrective plan of action, for each project.
The Consultant will prepare these monthly reports in two forms:

a. An executive summary, that functions as a periodic newsletter of construction progress for project stakeholders and LA-RICS stakeholders
b. Analysis of the LMR System Contractor's and LTE System Contractor's recovery schedule (if applicable).
a. A detailed report for each project

The executive summary will be a graphic representation of the current and accurate status of each program's master plan. The detailed report supporting the summary of each project discusses all aspects of the program(s) master plan and the scope, schedule, and budget of current capital projects. The methodology used in preparing these reports for each project will be based on integrating information from various project databases or control systems such as:

a. Schedule information (completion status, milestone, critical path, and baseline schedule.
b. Total project cost estimates and financial summaries.
c. Project cash flow.
d. Submittals.
e. Requests for information.
f. Requests for quotation.
g. Critical issues

4.6 Provide and maintain an Electronic Document Control

The Consultant will provide a Document Control Plan and project file index which will define control procedures for all project-related documentation for each project. They will establish, manage, set-up, and implement a fully integrated, image-based document and retrieval system, for both the LMR and LTE projects, allowing for

the archiving, control and security of all documents, records, reviews, correspondence, and writings, which shall provide the capability for expediting the transmittal of project-related construction documents. Consultant document control staff will maintain the accuracy of these databases through both daily and weekly updates.

The document control system for each project will:

a. Enable the management of millions of records and retrieval in seconds
b. Store consultant services agreements and contracts for easy retrieval and review
c. Shares documents with colleagues while protecting confidential information
d. Allow for e-mailing or faxing files with the click of a mouse
e. Provide an easy way to share documents with other offices or take them on the road
f. Tackle paper flow and information overload
g. Provide legal documentation

The Consultant will ensure all hardware and software purchased meets the specific requirements to support the proposed electronic document control system and other established programs. They will work with the Authority to ensure the management information system for both projects possesses adequate capacity to manage the requirements, such as a shared local area network, electronic image-based document control system, and communications such as e-mail, computerized faxing, and internet access.

4.7 Provide and maintain an Issues Tracking System for each project

The Consultant will employ a web based Issues Tracking System such as Oracle Contract Manager as an issues tracking tool for each project to provide:

a. Effective communication and accountability from which project performance can be evaluated
b. Built-in modules for intuitive form routing and tracking tools to responsible parties
c. Allows project executives to focus on managing projects, not paper

5. SCHEDULE AND COST MANAGEMENT

Develop program procedures for the management of funding authorizations, funding approvals, cost escalation, communications protocols, responsibility matrix, and records management for the LMR and LTE projects.

The Consultant will develop a Project Delivery Plan (PDP) for each of the LMR and LTE projects consisting in part of program procedures for implementation and management of all tasks. Consultant will develop the PDP using industry best practices and will then customize it to meet the specific needs of the LMR and LTE projects. They will meet with key Authority personnel to better understand existing protocols for funding authorization approvals and communication for each project.

The Consultant will use this information to create program procedures, a communication plan, and a responsibility matrix with flow charts for each project.

The Consultant will track and manage cost escalation by using internal cost data for similar programs/projects as well as published industry cost information to establish trending plans. They will use these trending plans to determine the appropriate contingency levels for the LA-RICS LMR and LTE project cost models.

The Consultants' records management system will be a project management control system that will fully integrate all project information for reach project. This will be a web-based system and will have secured access availability based on an approved responsibility matrix and communications protocols.

5.1 Prepare and manage project budgets and schedules

The Consultant will develop program-level budgets and schedules for both the LMR and LTE projects. The master schedules will be a roadmap to project completion. Working with the information gathered at the interactive planning session, the Consultant will work one-on-one with the critical project stakeholders to develop a master schedule for each project that details every activity required to complete the project. This includes preconstruction activities including CEQA/NEPA studies, design milestones, third-party contracts, equipment and furnishings procurement and delivery, and JPA requirements, construction phasing, training, testing and commissioning activities, and review and approval checkpoints for each project.

Based on criteria established for the prospective projects, the Consultant's estimators will query the historical database for similar type projects and use factors such as location and escalation to benchmark each project to the center point of construction. They will use data from each of these projects to develop a cost model or budget for the new LMR and LTE projects based on a set of assumptions in the planning documents. In certain situations or geographies, they will perform market surveys to determine current market conditions such as labor costs and availability, market saturation as it relates to the bidding climate, and any special factors to be considered for the local market.

Consultant shall review the LMR System Contractor's and LTE System Contractor's baseline schedules and make recommendations to the Authority whether to approve or reject the schedule for each project. Once the baseline schedules are established and approved, the Consultant will ensure that the Authority receives monthly schedule updates from the LMR System Contractor and the LTE System Contractor. The Consultant shall review the monthly schedules updates and make recommendations to the Authority whether to approve or reject the updated schedules for each project. The Consultant shall provide review comments to the LMR System Contractor and the LTE System Contractor to be incorporated into subsequent updates. Schedule review comments for each project shall include a discussion on the following:

a. Overall contractual project duration (calendar days) and any changes to the contractual substantial completion date. Include a discussion of any change orders which may have extended the contractual substantial completion date.
b. Discussion regarding the addition/deletion of any activities, calendar changes, changes in the relationship between activities and/or activity lags, changes in the description activities, calendar changes, changes in the duration of activities, number of activities with "actual start" dates, and number of activities with "actual completion" dates.
c. A critical path analysis for each of the LMR and LTE projects.

5.1.1 Establishment of a Baseline Schedule

The Consultant will establish a baseline schedule with the LMR System Contractor and the LTE System Contractor that is fair to the Authority and LMR and LTE Systems Contractors and is an accurate representation of how each Contractor will actually build the LMR and LTE projects. For each project, the schedule will include consideration of, but not be limited to:

a. An understanding of critical tasks to be performed
b. An understanding of project schedule and budget objectives
c. Consensus of basic schedule architecture, software usage and administrative steps for the balance of the project
d. Review of the telecommunications system contractor's detailed baseline schedule
e. Examination of logic durations, constructability, and flow of work laid out in the schedule, including non-implementation/construction restraints and activities (i.e. permits, procurement strings, submittal

reviews and approvals, other contractor activities, end user activities, and restrictions)
f. Analysis of cost and manpower allocations by trade and examination of cumulative distribution
g. Consideration of input from major subcontractors and vendors, thorough the telecommunications system contractor, in development and approval of the schedule.

5.1.2 Key schedule management activities for the LMR and LTE projects will include, but not be limited to:

a. Short interval schedules, such as two- and three-week look-ahead schedules
b. Updating the schedule monthly
c. Preparing float trend analysis on each update (refer to the float chart on the following page)
d. Generating pay applications from the updated schedule
e. Evaluating the LMR System Contractor and LTE System Contractor's recovery schedules and identifying mitigation measures needed whenever progress is delayed
f. Identifying mitigation measures needed for the recovery or when changes to the contract scope of work have the potential to impact the schedule
g. Coordinating all construction activities with particular attention to coordination with various contractors working on different bid packages
h. Documenting, verifying, and reporting progress monthly
i. Performing technical analysis for all the changes submitted and/or subsequent claims made by the telecommunications system contractor
j. Conducting negotiation of all time impact settlements

5.1.3 Integration of the System(s) with a Work Breakdown Structure/Chart of Accounts

To make the LMR and LTE projects controls process comprehensive to all program aspects, the Consultant will integrate each individual system component into an overall project control system for each project. One of these integrated components is the work breakdown structure (WBS). Consultant will work closely with the Authority to determine and define the best WBS for each project, and determine, for each project, whether projects' structure should be shaped by funding source, bid packages, program phase, or a hybrid of system/structure. These project structures will provide detailed definition to contract packages and major budget elements, and define segregated budgets across the whole organization, such as owner's costs, PM/CM Consultant, and the LMR and LTE Systems Contractor's cost assignments.

5.1.4 Use of Each System as a Management Tool

Each WBS entry, for each project, will have a project definition sheet that provides the WBS description, set of functional requirements the projects must satisfy, the allowed budgets (by design or construction phase for each active party), and overall project(s) schedule. Together this matched data provides a tool to baseline and track performance against a pre-determined set of metrics.

5.1.5 Provide telecommunication appraisal expertise for valuation on all match expenditure for grant funds

The grant application and approval process for each project involves developing investment justifications based on technical or operational needs, and also developing a financial analysis that provides approval authorities with the confidence that all costs and benefits have been defined and quantified. This analysis is especially important when the applicant must produce matching funds to qualify. One of the key aspects of developing a cost analysis is creating a viable set of assumptions, particularly in the areas of technology, finance, and operations. For a particular appraisal, the Consultant will work with the LA-RICS Executive Director to identify and quantify these assumptions for each of the LMR and LTE projects. Using an in-house cost estimating tool, the Consultant will provide a life-cycle cost estimate for the applicable LMR and/or LTE Systems based on actual

contract information balanced against industry information, as well as the Consultant's experience with comparable systems. The estimated costs for each project may include:

a. Radio equipment and control
b. Backhaul equipment
c. Interoperability equipment
d. Subscriber units
e. Antennas
f. Dispatch consoles and other subsystems needed to interconnect to the radio network
g. Real property, site access agreements, and site modifications
h. Microwave upgrade/extensions
i. Project management
j. Annual maintenance
k. First year operational costs
l. Projected 10-year capital costs
m. Projected 10-year operational costs

6. QUALITY ASSURANCE/QUALITY CONTROL

The size and complexity of two simultaneous LMR and LTE LA-RICS projects demand an exacting approach to quality control, risk management, and customer satisfaction. To ensure that the LMR and LTE Systems Contractors deliver the best and most comprehensive solutions for the Authority, the Consultant will employ proven processes for QA/QC and Risk Management services across all project phases for each project. To ensure the Consultant achieves Authority expectations and goals, the Consultant will use a client satisfaction process to measure their team's performance against mutually agreed-upon key performance indicators for each project. The following paragraphs outline the approach to these critical areas.

a. The Consultants team members will have performed QA/QC specialized functions on statewide radio deployments in the U.S.
b. The Consultant will use the industry's most comprehensive collection of radio technology engineers and analysts available
c. The Consultant of QA/QC process experts will have performed similar services for projects similar to the LA-RICS project
d. High-level team management involvement will be used throughout the LA-RICS project

e. The Consultant's complete and operational radio systems performance approach will:
    i. Provide a QA/QC plan that encompasses the QA/QC process, reviews, methodology, resources, and objectives of the QA/QC program
    ii. Apply best practices analytical tools to verify and validate the telecommunications system contractor's approach and estimations
    iii. Provide a detailed, actionable recommendations for system and/or program modifications or improvements

The intent and benefit of a well-defined QA/QC process for each project is to verify and validate the specific work products of each project phase. The Consultant will develop a QA/QC plan that supports Authority expectations of quality from the LMR and LTE System Contractors.

6.1 Verify Technical Compliance

The Consultant will assess and report on the LMR System Contractor's and LTE System Contractor's adherence

to the technical requirements of the LMR and LTE projects during all project phases. These requirements include the functional, operational, standards compliance, performance, coverage/capacity, and interoperability requirements of the LA-RICS program. Reports will be generated on a quarterly basis for each project, with ad-hoc reports generated for compliance actions that require immediate response.

7. RISK MANAGEMENT

The Consultant will implement a comprehensive risk tracking and mitigation program for each project that will:

a. Identify and evaluate potential risks to the LMR and LTE projects
b. Identify risk mitigation strategies and activities for each project
c. Report on findings and recommendations for each project

In addition, the Consultant will closely monitor the LMR and LTE Systems Contractors' project plans to identify potential risks to the timely completion of project milestones and tasks and to the adherence to the project schedule for each project. The Consultant will provide reports with findings and recommendations on a quarterly basis for each project, or as required.

The Consultant will employ these two key risk management functions:

a. Risk *assessment*, where the Consultant and Authority staff will determine the risks in each project and identify plans to execute should the risk materialize.
b. Risk *control*, where the Consultant and Authority staff will take a proactive role to minimize and mitigate identified risks in each project before they occur.

The Consultant will develop and maintain, with input from the Authority, a list of potential risks for each project. Potential risks will be included for all participating organizations, including the LMR System Contractor and the LTE System Contractor, all subcontractors for each project, participating local jurisdictions, and the JPA in areas such as:

a. Critical path analysis – dependencies and impact of non-achievement
b. Schedule realities and anomalies – realistic durations compared to recent past histories
c. Design – comprehensive and in sync with industry best practices
d. Production limitations – ability to meet schedules and prioritize new orders
e. Weather – impact of adverse weather conditions
f. Past history with specific products being fielded – issues and anomalies
g. Construction and vendor delays – track record of performance and vendor delivery
h. Organization – organizational structure that supports requirements and changes
i. Third party – regulatory issues, permitting processes, environmental concerns, etc.
j. Public relations – impact of political wind shifts, perceptions, and communications

7.1 Dispute Resolution

For each of the LMR and LTE projects, the Consultant will ensure that design documents are well coordinated, easy to read, complete, and as error-free as possible. To achieve this, the Consultant will conduct thorough design and constructability reviews for each project with a multi-disciplined A/E team. The Consultant will conduct reviews at design milestones, often at the conclusion of each design phase, at intermittent completion milestones, or via over-the-shoulder reviews for specific technical needs. The Consultant will ensure:

a. That design documents prepared by the telecommunications system contractor comply with state and local codes.
b. Building systems are energy efficient.

c. The design accounts for technology needs.

The Consultant will work in cooperation with the Authority to develop a checklist approach to document review for each of the LMR and LTE projects.

The Consultant will attempt to resolve issues in each project as early as possible and at the lowest management level. During the initial phase of the LMR and LTE projects, the Consultant will conduct an interactive planning session to ensure all project details and needs are discussed early and openly. The Consultant will develop a defined project execution plan for each project with established key milestone dates for each phase, identifying key interface points, identifying the project critical path and setting coordination procedures and soliciting the LMR and LTE Systems Contractors' buy in to the overall plans. It will establish a protocol identifying how Contractor issues will be addressed. The Consultant will subsequently monitor each project for potential issues and work quickly to resolve them while impacts are minimal. If the Consultant observes or suspects a problem exists that could lead to a claim in either project, they will:

a. Evaluate the potential risk
b. Explore alternatives for resolving the problem
c. If required, prepare supplemental guidance to clarify contract requirements
d. Begin preparing a potential claim file to capture all correspondence, reports, meeting minutes, and other documents relevant to the issue
e. Proactively address and fairly resolve telecommunications system contractor's issues as they arise so that they don't become claims
f. If a claim is filed, assist with the resolution with expertise, lessons learned, and strategy development
g. Initiate a change order, if appropriate, to compensate a contractor for changed conditions

8. PROJECT CLOSEOUT

Coordinate System Acceptance and End-User Training for each LMR and LTE Project

For each LMR and LTE project, the Consultant will determine the project closeout requirements during the program's integration phase. The Consultant will work closely with key stakeholders, especially maintenance and facility personnel, to understand their requirements for closeout, including warranty requirements, start-up, training, and usual and ongoing maintenance. The Consultant will include these requirements in the project management controls system for each project, as well as on the projects' master schedule. The Consultant will provide a comprehensive issues tracking system to provide visibility and definition to outstanding deficiencies and an integrated project schedule for both the LMR and LTE projects. The Consultant will coordinate acceptance activities for each project with the Authority (including their program managers, execution of a work acceptance certificate) and applicable jurisdictions to ensure all LMR and LTE Contractor obligations are complete. This includes:

a. Obtaining jurisdictional approvals of the site design documents
b. Completing all contract milestones
c. Obtaining work acceptance certificates for substantial/final completion of LMR system acceptance, LTE system acceptance, and final telecommunications system acceptance

9. STATEMENT OF WORK BY PHASES

Both the LMR and LTE projects in the LA-RICS program will be executed in the following six phases:

Preliminary Phase (Phase 0) – Project Startup (LMR and LTE)
Phase 1 – System Design (LMR and LTE)
Phase 2 – Supply Telecommunications System Components (LMR and LTE)

Phase 3 – Site Construct and Site Modification (LMR and LTE)
Phase 4 – Telecommunications System Implementation (LMR and LTE)
Phase 5 – Telecommunications System Maintenance (LMR and LTE)

9.1 PRELIMINARY PHASE 0 – LMR AND LTE PROJECT STARTUP

Upon the effective date of Consultant Agreement and a Notice to Proceed (NTP), and prior to the execution of the LMR System Contractor's contract or the LTE System Contractor's contract, Consultant shall fully perform the Preliminary Phase tasks and deliverables in this Section 9.1 for both the LMR and LTE projects.

9.1.1 Document Management System

Consultant shall establish a document management system for both the LMR and LTE projects in both electronic and paper documents format.

9.1.2 Cost Modeling

Consultant will assist the Authority in developing a project cost model for each project that considers grant funding allocations, proposed/required Member contributions, proposed/required Member/subscriber/affiliate fees, timelines and cash flow requirements by phase. Consultant shall create a baseline cost of the LMR and LTE System Contractors' scope of work, identifying costs by phase, project schedule(s), and migration plan(s). Consultant shall work with the Authority and other relevant entities to create reports for each project analyzing the optimization of LA-RICS project funding/grant funding with the LA-RICS projects schedules.

9.1.3 Project Delivery Plan (PDP)

Consultant shall create a Project Delivery Plan draft for both the LMR and LTE projects, subject to subsequent revision under Section 3.0 above.

9.1.4 LMR System Analysis

Consultant shall prepare an analysis regarding the LMR system addressing

a. The potential wasteage if the Authority were to implement the LMR system on the T-Band frequencies (470 to 512 MHz) and then migrate the LMR system to 700-800 MHz band frequencies or other hybrid network prior to the T-Band frequencies being auctioned under HR 3630
b. The feasibility of the Authority forgoing implementation of the LMR system on the T-Band frequencies, and rather implementing the LMR system on 700-800 MHz band frequencies or other hybrid network.

Regarding item a. of this task, issues to be addressed include:

a. How much of the T-Band design would be reusable?
b. What is the breakage/throwaway?
c. In a notional design, how many sites would be needed for a 700-800 MHz band frequency, or some hybrid thereof, LMR system?
d. Where could the Authority co-locate the 700-800 MHz band frequency sites with the LTE system sites?
e. If the Authority could co-locate some number of 700-800 MHz band frequency sites with LTE system sites, how many frequencies would the Authority need?
f. Is the migration from T-Band frequencies to 700-800 MHz band frequencies a significant forklift effort?
g. What percentage of what the Authority deployed on the T-Band frequencies will require replacement (breakeage)?

Regarding item b. of this task, issues to be addressed include:

a. How many sites would be needed?
b. What is the estimated cost?
c. What is the total cost of ownership?
d. In a notional system, what are the number of frequencies the Authority would need in order to build-out a system to cover Los Angeles County at the coverage and capacity specifications noted in Request for Proposals?
e. Does the Authority or its Members have those frequencies now?
f. How long will it take to build out the network?
g. What else is possible?
i. What other frequencies could the Authority use?
ii. How could the Authority use the analog overlay?
iii. Could the Authority use the LTE system sites for 700-800MHz deployment and enhance frequency reuse?
iv. What would coverage and capacity look like depending on the design?

9.1.5 LMR Site Assessments

As part of the project descriptions, the Consultant will perform detailed site assessments for all 109 identified LMR sites. The project descriptions will include site drawings showing construction boundaries, footprints of towers and shelters, and disturbance areas. It will also provide tower and shelter details, including quantity, height, size, foundation, lighting, number and type of antennas, and amount of grading and clearing necessary. Since the documents will be used as a reference for the environmental analysis, the Consultant will employ specialized technical support staff, experienced in the requirements, environmental impact, and documentation of radio tower site construction, to ensure the accuracy and completeness of all information.

The Consultant will work closely with the Authority to schedule, coordinate, and review these documents to ensure they accurately describe the systems and site components at each of the 109 LMR sites, and that they provide the necessary information for the environmental CEQA and NEPA review process. Also, the Consultant will complete site visits and inspections for all existing 109 LMR sites to ensure the accuracy of the LMR site database as provided in the RFP and supporting documents. The Consultant will perform visual site surveys to include, but not be limited to, the following elements:

a. Structural analyses of existing towers and other antenna support structures.
b. Equipment inventory.
c. Access road conditions.
d. General site conditions.
e. Physical availability of surrounding land space.
f. Perimeter security.
g. Commercial power.
h. Emergency power.
i. AC and/or DC power.
j. Equipment shelter design.
k. HVAC.
l. Grounding and lightning protection.
m. Tower FAA obstruction lighting and painting.
n. Fire suppression and prevention.
o. Telco service.

p. Site safety radio frequency radiation compliance.
q. Grounding and variances from specific vendor standards.
r. Transmission line support structures.
s. Waveguide and dry air systems.
t. Civil and earthwork performance criteria.
u. Nearby obstructions that may impact microwave paths and mobile radio coverage.
v. Implementation of best management practices and CEQA/NEPA mitigation measures (if any).

The result of LMR Site Assessment task will be a complete and comprehensive LMR site database of all 109 LMR sites. The site database will be resident in the SharePoint system for easy access by the Consultant, the Authority, and subsequent Telecommunications System Contractor(s).

9.1.6 LMR Hybrid System Analysis

Consultant shall prepare an analysis regarding the feasibility of a potential hybrid LA-RICS LMR system consisting of:

a. The use of the County-owned UHF T-Band frequencies for a County-wide digital trunked voice radio system DTVRS for the agencies which currently use that frequency band.
b. The use of the seventy (70) 700 MHz County-licensed frequencies to provide County-wide coverage for migrating selected UHF T-Band subscribers away from that spectrum in preparation for the eventual requirement to vacate the T-Band spectrum.
c. The use of the County-owned UHF T-Band spectrum to provide NMDN (narrowband data, 25 KHz) County-wide coverage until LTE services are available from the National Public Safety Broadband Network or a compatible network implemented by LA-RICS.
d. The use of the existing County-licensed 800 MHz spectrum (64 channels) for the Analog Conventional Voice Radio System (ACVRS).

The areas to be included in this analysis include the following, for both the 700 MHz and UHF T-Band components:

a. Coverage
b. Capacity
c. Spectrum use including high-level channel planning for simulcast planning and channel reuse
d. Initial high-level identification and mitigation of interference issues
e. High-level implementation and migration considerations
f. Rough order-of-magnitude costs for the LMR and microwave equipment, infrastructure, and vendor-related implementation/project management

This task does not constitute a network design, but is rather a feasibility analysis. Preliminary and detailed analyses will be conducted by the future LMR System Contractor during Phase 1 design activities, and reviewed by the Consultant.

Assumptions from the initial LMR Feasibility Study (section 9.1.5 above) will be used in this hybrid network feasibility analysis, including the areas of user requirements, technical and functional specifications from the 2011 Telecommunications Services RFP, spectrum ownership, currently awarded grant funding, and site availability. No consideration will be given to determining the timing of the availability of additional 700/800 MHz spectrum, the availability of LTE capacity, legislative or policy changes related to the T-Band giveback process, or the availability of any funds related to H.R. 3630. Channel requirements per site will be developed using existing system use information

and the minimum channel count of 10 per site defined in the RFP will not be used; rather, the channel counts per site will be based on a high-level assessment of requirements based on current use and projected growth as outlined in the RFP.

Additional scope of work in this section 9.1.6, and as a follow-on to completed activities for the LMR Hybrid System Analysis as outlined above, will include an interference analysis of two (2) 700 MHz guard band channels.

As a result of the enactment of HR 3630 on February 22, 2012, LA-RICS is tasked to look for additional radio spectrum to construct a UHF T-band/700 MHz hybrid voice and data network. LA City has contributed thirty-four (34) 700 MHZ frequencies. Two MHz of 700 MHz spectrum was also identified for potential use. These two are the guard band frequencies 768-769 MHz and 798-799 MHz which separate the broadband from the narrowband frequencies, and are not currently allocated for use by FCC rules. LA-RICS plans to apply for a waiver to the FCC rules to utilize these frequencies in support of its Hybrid network.

LA-RICS has contacted FCC counsel to begin the waiver process for these frequencies. The added scope to the Jacobs Scope of Work (restated herein) is as follows:

a. Provide a needs analysis demonstrating and justifying that other spectrum is not available.
b. Provide an interference analysis to ascertain that the use of the spectrum as identified above is possible without significant interference to adjacent services.
c. Complete the FCC Form 605 License Application, articulating the technical parameters for use of the spectrum.

Consultant will utilize subject matter experts skilled in the areas of RF frequency coordination, frequency interference engineering, knowledge of FCC rules, and familiarity with the waiver and licensing process. Additionally, Consultant will generate technical supporting documentation in the form of interference contours. This scope is anticipated to take no longer than six (6) weeks from issuance of notice to proceed to completion.

9.1.7 RFP Rewrite (LMR and LTE)

Consultant will support the RFP Rewrite process for both LMR and LTE, in the following areas:

a. LTE and LMR network specification
b. Site and constructability considerations
c. Overall program rollout expectations
d. Design, deployment, test and acceptance processes and specification
e. Phasing and schedule considerations
f. Overall site and network requirements generation

The Consultant will perform the following minimum program support activities:

a. Provide input with respect to technical and functional specifications for consistency with industry standards and client requirements.

b. Provide input with respect to LMR and LTE RFP(s) for inconsistencies in technology, methodology, and performance.

c. Provide input with respect to the review of LMR and LTE RFP(s) to ensure consistency with the proposed evaluation and scoring methodology and process.

d. Provide input with respect to the review of LMR and LTE RFP(s) to validate that proposals can be verified through future acceptance testing.

e. Provide input with respect to the review of boilerplate terms, conditions, and instructions for appropriateness and applicability to the goals and objectives of the LA-RICS initiative.

f. Provide input with respect to the review of service level/performance guarantee requirements to validate that they can be achieved.

g. Provide input with respect to the review for unnecessary risk items that may be ascertained in proposer(s) proposals.

The Deliverable for this 9.1.8 RFP Rewrite task is the Summary Report of activities performed in support of LA-RICS RFPs for both the LMR and LTE Systems resulting in a LMR System Contractor RFP and a LTE System Contractor RFP that will each be the basis for LMR and LTE Contractor(s) selection to perform the design, deployment, test, and acceptance for the LA-RICS program.

9.1.8 RFP/Proposals Compliance Analysis

Consultant will perform the RFP Proposal Compliance Analysis for both the LMR and LTE proposal(s), specifically in the areas of LMR and LTE network specifications, site and constructability considerations, and with respect to specific Proposer(s) proposed deployment decisions and infrastructure development considerations for each project. The Consultant will perform the following minimum proposal compliance activities for each project:

a. Review LMR and LTE RFPs to validate proposer(s) knowledge of LA-RICS requirements for each project.

b. Identify key areas of LMR and LTE RFP response to be used for compliance analysis for each project.

c. Develop a format for the Compliance Report that will be specific to each proposer(s) proposal for both the LMR and LTE proposals.

d. Develop analytical processes to ensure consistency across compliance report sections, and aid in consistency in the evaluation and scoring processes for each project.

e. Review specific technical sections of each proposer(s) proposal to validate compliance with RFP requirements and expectations for each project.

f. Review each proposer(s) response for both projects to validate that the required services and functions can be delivered operationally by the proposer(s), and that their proposed solution is viable and cost effective for each project.

g. Provide input with respect to review of the LMR and LTE RFPs to validate proposer(s) approach, cost, and acceptance criteria for the LMR and LTE network deployments for each project.

h. Review transition and implementation plans for reasonableness, adequacy, and compliance with LMR and lTE RFP considerations for each project.

i. Review and prepare an analysis of each proposer(s) proposal response for each project, indicating the strengths and weaknesses of each proposer(s) responses with respect to LMR and LTE RFP requirements.

j. Identify major concerns and risks with each proposer(s) response for each project.

Additionally, Consultant will provide LMR and LTE Subject Matter Expertise (SME) support to the Evaluation Team, to include the following tasks for each project:

a. Provide clarifications to the Evaluation Team, as needed, with respect to proposer(s) proposed technology and infrastructure solutions for each project.

b. Provide guidance to the Evaluation Team, as needed, with respect to industry best practices for LMR and LTE network deployment and site/civil construction for each project.

c. Assist the Evaluation Team, as needed, to fully understand the nature and intent of proposer(s) proposed technology and infrastructure solutions for each project.

d. Closely coordinate with the Evaluation Team across all components of the Evaluation process for each project.

e. Provide expert advice and recommendations to the Evaluation Team, as needed, to help the team understand not only the written solutions proposed by the proposer(s), but also the nuances of the proposer(s) proposal(s) with respect to design, deployment, test, cutover, and acceptance activities for each project.

f. Drawing upon the Consultants' expertise in the public safety market, provide reasonable estimations of constructability and network deployment success with respect to the proposer(s) proposed solutions and activities for each project.

g. Generally, assist the Evaluation Team with all aspects of the LMR and LTE evaluations with respect to each section of proposer(s) proposal(s) for each project, but not to include actual scoring activities.

The Deliverables for this 9.1.9 Proposal(s) Compliance Analysis tasks are the LMR and LTE Summary Compliance Reports for each proposer(s) of activities performed in response to the LA-RICS RFP(s)/Addendum(s). The Compliance Analyses will form the basis for the Proposal evaluation process for each project, specifically with respect to the design, deployment, test, and acceptance of the LA-RICS program. Additionally, written clarifications, recommendations, comparisons, and statements of expert witness, as provided to the Evaluation Team, will be compiled as part of the Deliverables for theses tasks.

9.1.9 Negotiations

Consultant shall participate in and advise the Authority during negotiations of both the LMR and LTE Systems contract documents to ensure that the Authority obtains the best terms and conditions, as accurately and effectively memorialized in the agreements for each project.

Consultant shall participate in and advise the Authority during negotiations with the selected LMR and LTE Systems Contractors to assist with identifying/clarifying Contractor(s) scope of work with respect to radio network deployment and site constructability, terms and conditions (including the justification for claimed exceptions), network design, deployment, test and acceptance, and all components and aspects of proposer(s) proposals(s) that would be the subject of negotiations for each project. Consultant will specifically support these LMR and LTE tasks in the following areas:

a. Assess LMR and LTE Contractor(s) proposal(s) with respect to terms and conditions as pertains to radio network deployment, site assessment, construction, testing, and acceptance for each project.

b. Assess LMR and LTE Contractor(s) proposal(s) for site network technology applicability, construction schedules, methodologies, processes, and plans for each project.

c. Assess LMR and LTE Contractor(s) proposal(s) processes for telecommunications equipment deployment, site upgrades, builds, over-builds, modifications, etc. for each project.

d. Assess LMR and LTE Contractor(s) proposal(s) for compliance with industry LMR, LTE, and construction standards, and radio deployment and construction best practices for each project.

Additionally, the Consultant will perform the following services in support of LMR and LTE Contractor negotiations:

a. Participate in the development of the initial negotiations strategy for each project.

b. Develop what-if scenarios and devil's advocate positions for possible negotiation(s) positions for each project.

c. Identify weak and strong points in the LMR and LTE Contractor(s) negotiation(s) positions.

d. Provide 'best current practices' for key negotiation areas based on recent experiences in other negotiation processes.

e. Review proposed LMR and LTE Contractor(s) schedule(s) to validate the viability of the proposed program schedule for each project.

f. Review component and network test procedures for reasonableness for each project.

g. Review payment/acceptance terms and conditions with respect to the adequacy of milestones and program performance metrics for each project.

h. Review and provide comparative pricing for services and equipment based on other similar negotiations efforts for each project.

i. Validate amount and applicability of equipment proposed to ensure adequacy of program deployment and performance for each project.

j. Provide QA/QC of Contractor(s)-proposed microwave routes, coverage, and service guarantees to identify weak areas for each project.

k. Review Terms and Conditions for areas that might impact design, implementation, testing, or acceptance criteria for each project.

The Deliverables for these 9.1.9 Negotiations tasks are the Summary Report of activities performed in support of LA-RICS LMR and LTE Contractor(s) negotiations(s) resulting in a LMR System Contractor contract and a LTE System Contractor contract.

Once negotiations for each project are completed, Consultant will also provide an additional Deliverable of preparing and providing a written analysis and recommendation of the respective LMR and LTE System being considered for award by the Authority. Such analysis is anticipated to be used and/or included in the board letter to the Authority's Board of Directors recommending award of a contract to the selected LMR System Contractor and the LTE System Contractor. Consultant's analysis will set forth (1) the specifics of each of the Systems being considered for award, (2) whether, in the Consultant's opinion,

each such System will meet the technical and operational needs of the Authority and the Authority's members, and (3) the Consultant's technical recommendation for award of each of the LMR and LTE Systems. The sufficiency of such analysis will be reviewed and approved by the Authority.

9.1.10 Outreach

The Consultant will provide outreach support activities to the Authority for the purpose of informing and advising the local community, local public safety agencies, and LA-RICS Members in the following program areas for each of the LMR and LTE projects:

a. Provide an overall project description and anticipated program timelines for the LMR and LTE projects.

b. Provide and maintain the master file of LA-RICS presentations, and keep presentation materials current and up to date.

c. Outline infrastructure development and construction, and the impact of such work on local jurisdictions and communities for each project.

d. Provide information and support for public dissemination of environmental assessments, as may be originated by either the environmental consultant or the Consultant, including providing LMR and LTE site assistance to the Authority for each project.

e. Provide analysis to the public and affected LA-RICS Members regarding the expected capital expenditure and operations/maintenance costs of the LMR and LTE Systems.

f. LA-RICS brochure and marketing material preparation for each project.

g. Assist with development of timelines specific to the work to be performed for each affected LA-RICS member and/or City, so targeted communities know what to expect from the LMR and LTE projects.

h. Provide a LA-RICS Fact Sheet to include common questions along with answers for each project.

i. Assist with prioritizing follow-up meetings for each project with cities and public safety agencies.

j. Prepare a marketing packet for meetings with City officials regarding Site Access Agreements for each project.

The Consultant will provide coordination services for local outreach meetings and attend such meetings as desired and requested by the Authority for each project.

The Consultant will provide other outreach services and/or activities to assist with specific environmental issues that may be identified and requested by the Authority for each project.

Although commenced in the Preliminary Phase, outreach activities may extend over various phases of each project.

The Deliverables for these 9.1.10 Outreach tasks are presentations, marketing materials, and fact sheets, as well as other work product generated from these 9.1.10 Outreach tasks.

9.1.11 Environmental Support

For each of the LMR and LTE projects, the Consultant will provide best practices analysis to include Biological, Archeological, and Botanist services to validate the Contractors' analysis that site construction activities do not violate environmental conditions as stipulated in CEQA and NEPA guidelines. These validation activities will

result in specific site-by-site analysis reports. These reports will be provided to the Authority weekly, and a monthly summary report will be included in the overall monthly program report for the LMR and LTE projects.

The Deliverables for these 9.1.11 Environmental Support are the environmental documents review reports.

LTE deliverables for this Phase 0 at a minimum will be:

a. BTOP-PH0-9.1.7 LTE RFP Rewrite Summary Report
b. BTOP-PH0-9.1.8 LTE Proposals Compliance Analysis Reports
c. BTOP-PH0-9.1.9 LTE Negotiations Summary Report; Written Analysis and Recommendation to Authority Board
d. BTOP-PH0-9.1.10 Outreach Presentations, Marketing Materials, and Fact Sheets
e. BTOP-PH0-9.1.11 Environmental Documents Review Reports

9.2 PHASE 1 – LMR AND LTE SYSTEM DESIGN

Early in the design phase for each project, the LMR and LTE Systems Contractors will prepare detailed Project Description documents that will describe the LMR System and LTE System respectively. The Consultant will work closely with the Authority and the LMR and LTE Systems Contractors to schedule, coordinate, and review these documents to ensure they accurately describe the systems and site components, and provide the necessary information for the environmental CEQA and NEPA review process for each project.

The LMR and LTE project descriptions will include site drawings showing construction boundaries, footprints of towers and shelters, and disturbance areas for each project. It will also provide tower and shelter details, including quantity, height, size, foundation, lighting, number and type of antennas, and amount of grading and clearing necessary. Since the documents for each project will be used as a reference for the environmental analyses, the Consultant will employ specialized technical support staff, experienced in the requirements, environmental impact, and documentation of radio tower site construction, to ensure the accuracy and completeness of all information for each project.

The Consultant will conduct a Constructability/Design Review for each of the LMR and LTE projects which will include review for compliance of rules, regulations, and codes. The Consultant will document and track any compliance issues found during the review process for each project and send the non-compliance issues to the A/E of record for correction. The Consultant will confirm compliance/correction of the issues either in a subsequent submission or through review of the documents for each project.

The Consultant understands that no system acquisition actions will be authorized for either the LMR or the LTE projects until the Phase 1 system design process is complete and associated environmental documentation is approved for each project respectively. Therefore, this task will commence as soon as possible after the LMR and LTE system(s) contracts are awarded in order to expedite the environmental CEQA and NEPA processes and reduce the risk of project schedule delays for each project.

9.2.1 Review Detailed Design Documents

The Consultant's vision for delivering each of the LMR and LTE systems design review services will be based on:

a. Applying experienced personnel with extensive public safety communications technology experience

b. Working within a structured quality management system that includes the JPA-approved processes, milestones, and checklists that the Consultant has successfully tested and implemented on similar projects

The Consultant will employ a combination of experienced personnel, coupled with the use of best practice quality management processes, to provide a comprehensive understanding and articulation of the LMR system design and LTE system design in each project respectively. The methodology for Phase 1 system design is depicted below and in the following sections.

9.2.2 System Design Methodology

Key elements of the design review activities include planning, scheduling, and coordinating preliminary design reviews (PDR) and detailed design reviews (DDR) with the Authority and the LMR System Contractor and the LTE System Contractor respectively, scheduling key milestones within the project master schedule for each of the LMR and LTE projects, and an independent assessment of the LMR System Contractor's and the LTE System Contractor's detailed design specifications. The Consultant will review all technical documentation for accuracy, constructability, and value engineering for each project. The evaluation of system specifications will consist of the following elements:

a. Requirements traceability – LMR System Contractor's and the LTE System Contractor's design specifications must be inclusive and comply with all requirements outlined in the final system performance criteria and environmental documents for each project.
b. Allocation of requirements – Each required functional element of the design specifications for both the LMR and LTE projects must be allocated to a system element that can be verified through factory, field, and acceptance testing.
c. Specification verification – Key performance elements should be independently evaluated and verified compliant with system performance criteria for each project.
d. Risk assessment – Based on the technologies specified for each of the LMR and LTE projects, the Consultant will identify high-risk areas and develop mitigation strategies for the Authority's review and approval.

For the design and subsequent phases for each of the LMR and LTE projects, the Consultant will work with the Authority to create a requirements traceability matrix (RTM) for each project which will separate each documented LMR System and LTE System requirement into a distinct tracking item. Using the RTM, the Consultant will monitor the project and ensure that functional, operational, performance, and user requirements are addressed throughout the planning, design, implementation, and testing phases of each of the LMR and LTE projects.

Design review activities for each subsystem of the LMR System and the LTE System will include a detailed evaluation of the following elements, as well as other elements that may be identified in the early planning with Authority staff:

a. Overall architecture and its feasibility within the entire system of systems for each project
b. Adherence to P25 standards and guidelines for the LMR project
c. Compliance with all federal, California State, County, and local fund requirements, rules, regulations, guidelines, directives, policies, and procedures for each project
d. Compliance with applicable FCC rules and regulations, including the 700 MHz waiver requirements for each project
e. Compliance with CEQA and NEPA regulations for each project

f. Verification of coverage, capacity, growth potential, and throughput for each project
g. Antenna designs for each project
h. Frequency/channel plans for each project
i. FCC licensing for each project
j. Interfaces and features for each project
k. Interoperability to existing systems and backhaul networks for each project
l. Backhaul network design, capacity/throughput analysis, microwave path analyses, fiber connectivity, redundancy, IP routing and addressing for each project
m. Reliability, fault tolerance, and scalability for each project
n. Network security and encryption for each project
o. Consoles for the LMR project
p. Logging recorder for the LMR project
q. System management and monitoring for each project
r. Inventory and maintenance tracking system for each project
s. Testing plans including factory (staging), component, integration, performance, and acceptance test plans for each project
t. Cutover plans for impact on operations; parallel operation on reuse sites for each project
u. Maintainability for each project
v. Disaster recovery plans for each project
w. Interference, particularly in the case of the LMR project, in simulcast mode.
x. Subscriber functionality for each project
y. Local and environmental regulation compliance for each project
z. Hardware, software, and services parts list to ensure no missing or extra items for each project
aa. General compliance to each of the LMR System Contractor and LTE System Contractor contracts and risks to future change orders for each project
bb. LMR System Contractor's and LTE System Contractor's value engineering plans for each project

The Consultant will evaluate the detailed design of the LMR system network Subsystems, which will include the P25 digital trunked voice radio system (DTVRS), the analog conventional voice radio system (ACVRS), and the Los Angeles Regional Tactical Communications System (LARTCS) and narrowband mobile data network (NMDN). The Consultant will similarly evaluate the LTE system detailed design and Subsystems for that project.

The Consultant understands the incumbent challenges of designing two new regional systems that must not only leverage existing infrastructure, but also accommodate interoperability among disparate systems and over varying terrain for each of the LMR and LTE network initiatives. For the LMR project, the Consultant will review the DTVRS design specifications for compliance to its stand-alone performance requirements and its interoperability with regional P25 (ICIS and Riverside County) and non-P25 (Orange and San Bernardino County) systems, as well as state agencies such as the California Highway Patrol and federal agencies such as the FBI.

9.2.3 Verify Coverage and Capacity

For each of the LMR and LTE projects, the Consultant will provide independent verification services for key network performance criteria such as coverage and capacity. The Consultant understands that the Authority has requested that the LMR System and LTE System Contractors supply copies of their coverage software to the LA-RICS project team for use throughout the project.

The Consultant is familiar with a number of vendor-specific and other industry coverage modeling tools for both

the LMR and LTE networks. Should the LMR and/or LTE System Contractors furnish copies of their coverage software to the Consultant, the Consultant will be able to operate and leverage the software to meet any LA-RICS coverage prediction requirements, within the terms and conditions of the Agreements with the LMR System Contractor and the LTE System Contractor. Where either the LMR System Contractor or the LTE System Contractor does not make their coverage modeling tool available to the Consultant, the Consultant will provide independent verification of coverage and capacity using other industry-approved modeling tools, as necessary to provide the Authority validation that the Contractor(s) coverage and capacity meet the technical specifications of their Agreement.

In all cases, and for each of the LMR and LTE projects, the Consultant will evaluate coverage and system performance by adhering to guidelines and recommendations outlined in the TIA publication, TSB-88. This document is an industry-accepted and widely used reference for radio frequency coverage modeling and system performance validation.

The Consultant will use a comprehensive network design toolset to independently verify the LMR System Contractor's and LTE System Contractor's performance predictions. The design tool set shall include the following modules:

a. A complete coverage analysis tool
b. A high-resolution mapping tool
c. A reliable network capacity analysis tool
d. A system-wide interference analysis tool

The network design toolset shall provide microwave design/path planning for backhaul design verification for each of the LMR and LTE Systems. This will facilitate point-to-point and end-to-end performance analyses by modeling the paths in detail, taking into consideration both urban (building) and terrain clutter. In addition to LMR system design and analysis, the Consultant will also perform LTE system design and analysis. The Consultant will perform the following tasks related to both the LMR and LTE Systems:

a. Recommend ideal radio site candidates
b. Evaluate coverage propagation
c. Analyze uplink and downlink rates for user equipment within coverage area
d. Analyze and mitigate potential interference

9.2.4 Design Review Activities

a. The Consultant's Phase 1 design activities will depend on the number and level of design reviews proposed by the LMR and LTE System Contractors.

The Consultant recognizes that due to the size and scope of the LA-RICS program, there could be multiple PDR activities for each of the LMR System and LTE System reviews, depending on how the Authority contracts with the LMR System and LTE System Contractors. The Consultant will adjust their design review activities to accommodate the Authority approved final schedule for each project.

As part of the overall risk assessment and mitigation process for each project, the Consultant will create a master punch list independent from the LMR System Contractor's and LTE System Contractor's lists. The master punch list for Phase 1 in each project will be based on the Requirements Traceability Matric (RTM) and will be used in subsequent phases to track construction, radio system implementation, and testing deficiencies for each project. The master punch list for each project will include, but is not limited to:

a. A complete description of the deficiency
b. Which section of the RTM or test procedure the deficiency is related to (as applicable)
c. Target correction date
d. Actual correction date
e. Scheduled re-test date (if applicable) and results
f. Assignment of responsibility
g. Resolution

During design review activities for both the LMR and LTE projects, the Consultant will identify high-risk areas and work with the Authority to require the LMR System Contractor and the LTE System Contractor to develop alternatives to targeted aspects of the design solutions.

To meet the objective in providing the most cost-effective LA-RICS solution, the Consultant will evaluate procurement and implementation costs for each of the LMR and LTE System designs proposed by the LMR System and LTE System Contractors. Their analysis methodology will include system modeling and providing budgetary cost estimates for baseline and alternative design solutions. Cost estimates are based on the Consultant's extensive knowledge and estimates will consider the following costs for each project:

a. LMR System and LTE System equipment and control
b. Core and backhaul network equipment
c. Subscriber units
d. Acquisition and placement of towers and shelters
e. AC and DC power systems
f. HVAC
g. Backup generator systems replacement or upgrade
h. Site acquisition and development
i. Permitting
j. Delivery, staging, and other testing costs
k. Project management, engineering, and service fees
l. Life-cycle maintenance
m. Contingency

For each of the LMR and LTE projects, the Consultant will coordinate and participate at each PDR and DDR presented by the LMR System Contractor and the LTE System Contractor. They will establish exit and entrance criteria for each of the reviews and work with the Authority to determine when those criteria are met, opening the gate for the Contractor to go to the next design step in the prescribed design process.

Once all design specifications are reviewed and risks, alternatives, and cost estimates established as part of the PDR and/or DDR processes, the Consultant will prepare a design analysis and recommendations report for each project and present it for Authority approval to proceed to Phase 2 Site Construction and Site Modification.

For each project and as required, the Consultant will assist the Authority in contract administration and preparing change orders/amendments to the LMR System Contractor and the LTE System Contractor. They will assist in negotiating change orders using the baseline contract specifications, performance criteria, and terms and conditions as a starting point.

For each project the Consultant will review the LMR System Contractor's and LTE System Contractor's proposed

change orders in detail, looking for specific items such as:

a. Extra equipment or software that is not necessary to build the system.
b. Open-ended or vague statements.
c. Inadequate vendor program management and/or quality assurance.
d. Unclear or immeasurable performance specifications.
e. Accuracy/applicability of labor rates and hours for the scope being performed.

9.2.5 Develop Detailed A/E Design Documents for Site Improvements

During the system design phase for each project, the LMR System Contractor and LTE System Contractor will develop architectural-engineering plans for site improvements and facilities construction for both the existing sites and any new sites. Throughout that process, the Consultant will provide over-the-shoulder peer/design reviews of the designs to ensure that best practices are being implemented, infrastructure capacity is being planned with appropriate contingencies, and that all best management practices and environmental mitigation measures (if any) are incorporated.

The Consultant will perform visual site surveys as necessary to verify site selection and design decisions. For each project, the Consultant will review the following elements of the LMR System Contractor's and LTE System Contractor's site design:

a. Structural analyses of existing towers and other antenna support structures.
b. Equipment inventory.
c. Access road conditions.
d. General site conditions.
e. Physical availability of surrounding land space.
f. Perimeter security.
g. Commercial power.
h. Emergency power.
i. AC and/or DC power.
j. Equipment shelter design.
k. HVAC.
l. Grounding and lightning protection.
m. Tower FAA obstruction lighting and painting.
n. Fire suppression and prevention.
o. Telco service.
p. Site safety radio frequency radiation compliance.
q. Grounding and variances from specific vendor standards.
r. Transmission line support structures.
s. Waveguide and dry air systems.
t. Civil and earthwork performance criteria.
u. Nearby obstructions that may impact microwave paths and mobile radio coverage.
v. Implementation of best management practices and CEQA/NEPA mitigation measures, if any.
w. Confirm site availability including – specifically if site is owned by the Authority and/or Authority members, and if the Authority has procured the legal rights to carry out the proposed improvements on the selected site.

9.2.6 Assist in Obtaining Jurisdictional Approvals

a. Because the site locations fall in different cities and unincorporated areas, jurisdictional approvals for each of

the LMR and LTE projects will be more complex to assess, coordinate, and track. The LMR System Contractor and LTE System Contractor are responsible for pulling permits. For each of the LMR and LTE projects, the Consultant will assist the Authority with site related tasks including, but not limited to, the following:

a. Conducting activities relating to the acquisition of rights to the sites
b. Conducting preconstruction site analysis and planning, including considerations for temporary utilities and structures, construction sequencing, construction site coordination, site infrastructure, construction-related traffic analysis, etc.
c. Coordinating site activities with utility companies
d. Coordinating geotechnical testing and investigation services
e. Coordinating environmental site assessments
f. Monitoring land surveying services
g. Monitoring field engineering investigations, assessments, and reports

b. For each of the LMR and LTE projects, the Consultant will ensure that proper planning takes place for a successful outcome of the jurisdictional approval process, which will minimize any potential project delays. The Consultant will support the LMR System Contractor and LTE System Contractor to ensure that:

a. Early in the design process for each project the LMR and LTE System Contractors identify the agencies having jurisdiction for the review and approval of the plans for each site or number of sites in the same municipality
b. The LMR and LTE System Contractor develop a comprehensive checklist of all the agencies required to provide clearances
c. Each project is properly introduced to jurisdictional agencies
d. The LMR and LTE System Contractors meet with each of the major lead agencies to better understand their requirements and the turnaround time for plan checks
e. The LMR and LTE System Contractors develop a checklist of the type of documents and number of copies each agency requires for the submittals

9.2.7 Review Geotechnical Reports and Site Environmental Assessments

For each project and as specified in the LMR and LTE System Contracts, the LMR System Contractor and LTE system Contractor are to document site conditions sufficiently to design and accomplish the improvements required at each site. The Consultant will review the resultant geotechnical reports and site environmental assessments for each project to evaluate the findings and recommended solutions, particularly for foundations and any potential underground environmental hazards, along with biological, archeological, and botany considerations.

For each project, should any hazardous materials be uncovered unexpectedly during excavation, the Consultant will provide qualified technical personnel to assist in evaluating materials procedures for testing, handling, transport, and/or disposal of such materials with minimal project impact and in full compliance with governing laws and regulations.

LMR deliverables for this Phase 1 will at a minimum be:

a. SHSGP-PH1-9.1.1 Project Description Review Document
b. SHSGP-PH1-9.1.2 System Design Review Document, Requirements Traceability Matrix, and Coverage and Capacity Verification Document
c. SHSGP-PH1-9.1.3 Site Design Review Document

d. SHSGP-PH1-9.1.4 Final Design Document Review Document
e. SHSGP-PH1-9.1.5 Outreach Presentations, Marketing Materials, and Fact Sheets
f. SHSGP-PH1-9.1.6 Environmental Documents Review Reports

LTE deliverables for this Phase 1 will at a minimum be:

a. BTOP-PH1-9.2.1 Project Description Review Document
b. BTOP-PH1-9.2.2 System Design Review Document, Requirements Traceability Matrix, and Coverage and Capacity Verification Document
c. BTOP-PH1-9.2.3 Site Design Review Document
d. BTOP-PH1-9.2.4 Final Design Document Review Document
e. BTOP-PH1-9.2.5 Outreach Presentations
f. BTOP-PH1-9.2.6 Environmental Documents Review Reports

9.3 PHASE 2 – LMR AND LTE SITE CONSTRUCT AND SITE MODIFICATION

In this phase of each of the LMR and LTE projects, the Consultant will oversee the implementation of the site improvements developed by the LMR System Contractor and the LTE System Contractor during the system design phase. The plans and specifications developed during the design phase should address modifications to existing sites, facilities or infrastructure, as well as site improvements and construction of new facilities and infrastructure at new sites for each project.

In this Phase 2, the Consultant will verify that the LMR System Contractor and the LTE System Contractor delivers the work of site modifications and construction of facilities and infrastructure meeting the quality specified in the plans and specifications that were reviewed and accepted during Phases 1, System Design.

The Consultant's field engineers/construction managers will be involved hands-on on a daily basis to make sure that the following items are addressed for each project:

a. Verify that all required permits are on hand before starting any construction activities
b. Communicate upcoming construction activities in advance to all stakeholders and the appropriate communities if impacts are expected
c. Process and address any requests for information and submittals coming from the LMR System or LTE System Contractors
d. Conduct construction observation to resolve any quality-related issues as they arise
e. Coordinate the services of the various specialty consultants, including special inspection and material testing
f. Monitor construction progress against the respective LMR or LTE project baseline schedules for each site and address recovery plans if delays become necessary
g. Review progress payment applications against work in place and process for payment as appropriate
h. Process any potential changes arising out of unforeseen field conditions or Authority-initiated directives
i. 9Ensure that all best management practices and environmental mitigation measures (if any) are addressed as defined in the environmental documents
j. Ensure that all master punch list work is completed properly and in a timely manner
k. Coordinate all inspection activities with the Inspector Of Record (IOR) and with deputy inspectors as may be assigned for each project.

The approved LMR and LTE System Designs may require modifications to existing sites, or new shelters and towers may be needed to accommodate coverage requirements, new equipment, or correct existing

deficiencies. These modifications may include grounding system improvements, electrical system upgrades, tower reinforcements, or equipment shelter expansions.

The Consultant will oversee any LMR System or LTE Sytem site modifications to evaluate construction methodologies and practices of the respective Contractors. Upon notice from the LMR System or LTE Sytem Contractor that site improvement work is ready for final inspection, the Consultant will conduct site inspections to ensure a quality installation and that applicable punch list items have been resolved.

LMR deliverables for this Phase 2 will at a minimum be:

a. SHSGP-PH2-9.3.1 Final Site Construction Report
b. SHSGP-PH2-9.3.2 Final Site Acceptance Report
c. SHSGP-PH2-9.3.3 Outreach Presentations, Marketing Materials and Fact Sheets
d. SHSGP-PH2-9.3.4 Environmental Document Review Reports

LTE deliverables for this Phase 2 will at a minimum be:

a. BTOP-PH2-9.3.1 Final Site Construction Report
b. BTOP-PH2-9.3.2 Final Site Acceptance Report
c. BTOP-PH2-9.3.3 Outreach Presentations, Marketing Materials and Fact Sheets
d. BTOP-PH2-9.3.4 Environmental Document Review Reports

9.4 PHASE 3 – SUPPLY LMR AND LTE SYSTEM COMPONENTS

For each of the LMR and LTE projects, upon successful completion of Phase 1 System Design and Phase 2 Site Construction and Site Modification, Phase 3 Supply Telecommunications System Components will commence. This Phase 3 consists of ordering, supplying, fabricating, and delivering the LMR System and LTE System components. As this Phase 3 kicks off, it will be important to confirm or re-establish the baseline project schedule, critical path drivers, work plans, and budget for each project.

The Consultant will work closely with the Authority to administer new contract orders and/or change orders, as necessary, for procuring the hardware, software, and other materials and services necessary to implement the LMR System and LTE System respectively.

For each project and before factory orders are placed, the Consultant will review all equipment lists for accuracy and completeness, ensuring they match the requirements of the LMR System and LTE Systems Contracts and the final design documentation. For each project they will use the RTM developed during Phase 1 System Design to monitor compliance with the system performance criteria and environmental documents.

9.4.1 Factory Acceptance Tests (FAT) and Equipment Staging

For each of the LMR and LTE projects, the Factory Acceptance Test (FAT) and equipment staging process involves assembling system infrastructure equipment for each site at the LMR System Contractor's and LTE System Contractor's facility(s) and conducting as much of the Acceptance Test Plan (ATP) activities as possible. The Consultant, as adjunct to, on behalf of, or as proxy for the Authority, will attend the FAT for each project and verify that the accepted testing procedures are properly executed and that the results concur with the system performance criteria as specified in the respective LMR and LTE technical requirements. For each project and after staging, the site equipment will be packed by the LMR System and LTE System Contractors for delivery or storage.

To provide the appropriate level of quality assurance during the FAT, the Consultant will perform the following actions for each project:

a. Re-review all applicable factory test procedures and confirm that they are designed to simulate, as closely as possible, the final overall system configuration
b. Verify test equipment metrology to ensure it is properly calibrated
c. Verify testing results will be properly documented and that any subsystem that was not tested as part of the overall staging effort is properly tested and documented by the specific supplier
d. Verify that any issues requiring a software, firmware, or hardware upgrade, downgrade, or retrofit will be clearly identified prior to shipment
e. Update master punch list throughout FAT, including recommended remedial action
f. Maintain results in a FAT report that includes FAT items from the master punch list
g. Update the requirements traceability matrix with FAT results

9.4.2 Materials Management

For each of the LMR and LTE projects, the Consultant will establish a logistics management process to ensure that the right materials are at the right place at the right time during deployment, including specifying, ordering, staging, kitting, shipping, sparing, and returns.

For each project and immediately following the FAT/staging process, while still at the manufacturer's facility, the Consultant will conduct an inventory of equipment for each site to include but not be limited to:

a. Electronics and ancillary equipment, including respective LMR System and LTE System, and microwave radios, equipment racks, power and signaling cabling, transmission lines and wave guides, antennas, grounding, and surge suppression
b. Components for shelter, antenna support structure, commercial power, emergency power, HVAC, site security, cable ladders and ice bridges, lighting, fire suppression system, and overall workmanship and materials
c. Site documentation and manuals for completeness; we will be particularly sensitive to as-built drawings and ensure that they reflect actual site conditions
d. FCC licenses and other regulatory permits and documentation.

For each project, the Consultant will verify that inventories document quantity, model, revision level, and serial numbers as appropriate. The Consultant will note any deviations from the factory orders/equipment lists in the master punch list, even if the inventory is to be placed into storage after FAT/staging.

LMR deliverables for this Phase 3 will at a minimum be:

a. SHSGP-PH3-9.4.1 Final Factory Acceptance Test Report
b. SHSGP-PH3-9.4.2 Final Equipment Staging Report
c. SHSGP-PH3-9.4.3 Final Inventory and Maintenance Tracking System (IMTS) Report

LTE deliverables for this Phase 3 will be:

a. BTOP-PH3-9.4.1 Final Factory Acceptance Test Report
b. BTOP-PH3-9.4.2 Final Equipment Staging Report
c. BTOP-PH3-9.4.3 Final IMTS Report

9.5 PHASE 4 – LMR and LTE SYSTEM IMPLEMENTATION

For each of the LMR and LTE projects, the Consultant will provide implementation planning and execution

support services using the proven processes described below. The Consultant understands that the LMR System and LTE System deployment plan may vary from the Phases defined in the LMR System Contractor's and LTE System Contractor's Contract:

a. The LMR System Contractor or LTE System Contractor that the Authority selects
b. Whether Notices To Proceed (NTP), or partial NTPs are issued for the Phases of each project
c. The LMR System's and LTE System's final technical, geographical, and/or operational attributes
d. Funding sources
e. Evolving priorities and other influences, such as political, environmental, and budgetary conditions

During system implementation and deployment for each project, the Consultant will provide oversight services to ensure the LMR System Contractor and LTE System Contractor executes according to the approved implementation plan and in conformance with the system performance criteria in each of the LMR System Contract and LTE System Contract.

9.5.1 Implementation Planning

For each project, the Consultant will work closely with the Authority and the LMR System Contractor and LTE System Contractor to define a comprehensive, step-by-step implementation plan and Integrated Master Schedule (IMS) for the LMR and LTE projects solutions. The implementation plan and schedule will be based on industry best practices for developing LMR and LTE radio systems and will address, at a minimum and for each project:

a. Conformance to the applicable of the LMR System Contract and LTE System Contract and system performance criteria
b. Adequate, phased schedule
c. Risk identification and mitigation planning
d. Frequency planning and FCC licensing
e. Indication of system acceptance and other testing completion sign-off by appropriate LA-RICS stakeholders
f. Indication that users and operations personnel must be fully trained
g. Minimizing the impact on system operations and service disruptions to public safety critical systems
h. Detailed procedures for acceptance testing, cutover, and operations
i. Minimal operation disruption during transition for users and dispatch
j. Roles and responsibilities of Authority personnel and LMR System Contractor and the LTE System Contractor personnel
k. Subsystem migration plans
l. P25 and broadband mobile data (LTE) upgrades
m. Other technology upgrades

The Consultant understands that the aspects of the design and implementation plans may change in each project, prompting the need for additional or refined cost analysis. They will evaluate variances from the baseline established in previous Phases and revise cost estimates as previously described.

9.5.2 Radio Service Migration Planning

For each of the LMR and LTE initiatives, it is extremely important to have a detailed migration plan for orderly transition from the legacy voice and data radio systems to the interoperable LMR and LTE Systems. Each step in the migration plan for each project should consider minimizing service interruptions and the impact to system users. The Consultant will review the LMR System Contractor's and LTE System Contractor's migration plan and

assist the Authority in coordinating the migration process with all jurisdictions in advance of acceptance testing. Among other considerations, the migration plans for each project must account for frequency utilization as well as how legacy and new equipment can coexist to facilitate a smooth transition.

The Consultant recognizes that overall system migration for large regional and statewide systems is best executed in phases—bringing live the new system's various segments one at a time. They will work with the LMR and LTE System Contractors to transition the Authority's voice and data radio operations in coordinated phases.

For each of the LMR and LTE projects, starting in the Phase 1 Design Phase, and continuing through Phase 4 System Implementation, the Consultant will assist the Authority in evaluating how the new LMR and LTE Systems will affect the current regional operations, interoperability, policies and procedures, and governance. For each project, and in order to determine what changes may be required to meet the public safety needs with the new/upgraded LMR and LTE System, the Consultant will review the following:

a. Current regional tactical interoperable communications plan (TICP)
b. Operating agreements and memoranda between the County, City, and participating jurisdictions
c. Governance structure with the Authority and appropriate stakeholders

For each project, the Consultant will assist the Authority in updating or developing new policies, Memorandums Of Understanding/Agreement (MOU/MOA), and Standard Operating Procedures (SOP) to implement effective regional interoperability and governance.

9.5.3 Acceptance Test Plans (ATP)

The LMR System Contractor and the LTE System Contractor will prepare detailed system Acceptance Test Plans (ATP) that the Consultant will evaluate during Phase 1 Design Review activities to ensure the system is thoroughly and meticulously tested to system performance criteria. For each project, the Consultant will conduct a series of recommended ATPs that will include:

a. **Field Acceptance Test Plan** – Verification that the plan tests proper operation, features, interoperability, and reliability of the LMR or LTE System, and backhaul network subsystems for each project, including system infrastructure, subscriber units, and consoles.
b. **Coverage Acceptance Test Plan (outdoor)** – Verification that the plan is consistent with TSB-88-C; provides objective evaluation the DTVRS for bit error rate (BER) and DAQ of 3.4; specifies pass/fail criteria, test areas, and size of each test tile, as per the technical specifications in the respective contracts.
c. **Coverage Acceptance Test Plan (indoor)** – Review of the Coverage Acceptance Test Plan (CATP) and verification that the evaluation of mandatory building coverage for each of the LMR and LTE projects will be either 1) service areas, or 2) by verification of indoor coverage for critical structures where the subjective indoor testing must occur. For specific critical structures, the Consultant will verify that the CATP includes a detailed map showing coverage requirements for each location, illustrating portable coverage with clear markings.
d. **Infrastructure Installation Test Plan** – Verification that the infrastructure installation test plan includes validation of all critical components (e.g., antennas, cabling, tower lighting, backup power, fault monitoring systems), especially those with significant importance to prolonged site operations during critical events or times of emergency response escalation.

e. **Full System Acceptance Test Plan** – Verification that the full system acceptance test plan contains an adequate subset of each of the other test plans to validate final acceptance and simulates, as closely as possible, the final overall system configuration.

9.5.4 Installation Support Services

For each project, the Consultant will oversee the new and upgraded equipment delivery installations, checking for quality and verifying activities against approved plans. The Consultant will inventory delivered equipment when it arrives at each site to make sure and verify it is in acceptable condition and suitable for installation.

The Consultant will accompany the LMR System Contractor and the LTE System Contractor at each site to verify that all LMR and LTE systems and equipment are present, properly installed, and that installations conform to industry workmanship standards using site-specific quality checklists. For example, the Consultant will inspect cabling for proper routing, bundling, and labeling. Inspections will also document any engineering design issues that must be dealt with and recommend corrective actions to be taken. The Consultant will update the master punch list according to issues found at each site in each of the LMR and LTE projects.

For each project, site verifications that commenced in Phase 2 will continue to ensure that site support systems (such as power, batteries, and emergency backup systems) are properly installed and operating with the system equipment. Upon notice from the LMR System Contractor or the LTE System Contractor that system installations are ready for final inspection, the Consultant will conduct site inspections to ensure installation requirements and quality standards are met. The Consultant will visit LMR and LTE sites, and dispatch sites and document any deficiencies on the master punch list, and will work as the Authority's agent with the respective LMR and LTE System Contractor to ensure that any required remedial action is taken.

If additional site work is needed in either the LMR or LTE projects, the Consultant will check progress against the implementation schedule to see that potential delays are quickly identified and that schedule delay mitigation plans are developed. They will document inspection results, including digital photos, for each site.

Depending on the site configuration, the following is a list of candidate items for inspection in each of the projects:

a. Access road
b. General site conditions
c. Physical availability of surrounding land space
d. Perimeter security
e. Emergency power
f. AC and/or DC power
g. Equipment shelter
h. HVAC
i. Grounding and lightning suppression
j. Tower(s) and transmission line support structures
k. Antennas
l. Waveguide and dry air systems
m. Electronics: radio(s), microwave, terrestrial interconnect, ancillary systems
n. Nearby obstructions that may impact microwave paths and mobile radio coverage
o. Evidence of approval by local building inspectors
p. Site availability – specifically if a site is owned by the Authority and/or Authority members, and if the

Authority has procured the legal rights to carry out the proposed improvements on the selected site through a Site Access Agreement

9.5.5 Commissioning

The Consultant will track and supervise the remaining work for the LMR System and LTE System respectively, and all of its parts, subsystems, and components to ensure they are fully functional in their respective service environments and in accordance with specified requirements in the respective contracts. As a prerequisite to final system acceptance in both the LMR and LTE projects, the Consultant will monitor and report the completion status of all master punch list items, further tasking, and deliverables.

Migrating public safety agencies to respective LMR and LTE operations will be one of the most critical portions in the deployment schedule for each project. The Consultant will work closely with the Authority, the participating agencies, and the LMR System Contractor and LTE System Contractor to define a comprehensive, step-by-step migration plan that will have the least impact on each agency's system operations, and minimize disruptions to public safety critical systems.

For each project, the commissioning process will take into consideration how legacy and new equipment can coexist in the same environment to reduce risk and facilitate a smooth transition. As part of that process, the Consultant will assist the Authority in planning and monitoring the decommissioning, removal, and disposal of equipment from legacy radio systems, as necessary, for each project. The Consultant will also continue to maintain the master punch list and ensure that final punch list items are completed prior to final milestone payments being approved. This will include delivery of all as-built and site record documentation that will enable the Authority to maintain and support the LMR and LTE Systems.

9.5.6 System Acceptance

For each project, the Consultant will oversee the LMR System Contractor's and LTE System Contractor's field acceptance testing. They will observe testing to ensure tests are conducted in accordance with the aforementioned test plans and verify system functionality, performance, reliability, and loading for each project.

The Consultant's system acceptance test oversight methodology for each project will be based on the processes outlined in the respective LMR and LTE QA/QC plans. The Consultant will use the RTM for requirements validation and will coordinate the methodology development and approval with the Authority and the LMR System Contractor and LTE System Contractor respectively. During their review of each of the LMR System and LTE System Acceptance Test Plans, the Consultant will supplement each with their explicitly-defined verification procedures.

Prior to witnessing any tests for either project, the Consultant will check the Contractors' test equipment metrology to ensure that the equipment has been properly calibrated and that the certification of calibration has not expired. The calibration should be traced to National Institute of Standards and Technology (NIST) recognized standards.

The LMR System Contractor and the LTE System Contractor must update the design documentation according to the accepted, final system for each project. The Consultant will review all final documentation, verifying not only that the documentation accurately reflects the final design, but that the final design implements the

requirements captured in the RTM (i.e., meets system performance criteria) and that the master punch list is updated. If retesting is recommended in either project, the Consultant will verify the additional tests are properly executed and passed.

9.5.7 Training

For each project, training will be necessary for system equipment setup and operation, subscriber use, dispatcher use, and system management/maintenance personnel. The Consultant understands that training can become complex and costly if not standardized, since different agencies will require training on different systems, equipment, operations, and procedures. Therefore, the Consultant will work with the Authority and the LMR System Contractor and LTE System Contractor to identify a combination of standardized formal and on-the-job training requirements for the new systems.

The Consultant will review the LMR System Contractor's and LTE System Contractor's training plans. for each project, to ensure compliance with the respective LMR and LTE System Contracts and performance criteria. In addition and for each project, the Consultant will review training plans for items such as the adequacy and best use of the schedule, training equipment, facilities, and presentation materials.

For both the LMR and LTE projects, the Consultant will also identify training requirements that align with the regional governance plans and initiatives, along with national SAFECOM and/or FirstNet requirements and standards. This will include proper training and regular exercises critical to the implementation and maintenance of a successful interoperability solution, including but not limited to:

a. General orientation on equipment
b. Multi-agency tabletop exercises
c. Multi-agency functional exercises
d. Continued, regular comprehensive regional training

9.5.8 Warranty Services

For each project and during the warranty period, the Consultant will verify that the LMR System Contractor's and LTE System Contractor's preventive and corrective maintenance plans include a warranty period as well as long-term, quality operations and maintenance functions throughout the LMR System's and LTE System's life-cycles. During the warranty period for each project, the Consultant will evaluate, at a minimum the following maintenance plans for:

a. Warranties
b. Infrastructure equipment repair/replacement
c. Subscriber unit repair
d. First year system maintenance
e. Ongoing system maintenance
f. 24-hour call center
g. Quality assurance inspection recommendations
h. Deficiency resolution
i. Technology upgrades
j. Software upgrades
k. Extended support services
l. Network monitoring/NOC services
m. Disaster recovery plan
n. Field engineering

o. Network, asset, and configuration management
p. Major system infrastructure component spares and their locations
q. Transition/termination plans
r. Maintenance fees

The Consultant will verify, during the warranty period, the LMR System Contractor's and LTE System Contractor's life-cycle planning plan, and verify that LMR System Contractor's and LTE System Contractor's system enhancement and support services capabilities will consist of the following steps:

a. Needs assessment/problem definition
b. Feasibility study
c. Requirements definition
d. High-level analysis and design
e. Detailed design
f. Procurement
g. Implementation
h. Testing
i. Maintenance and operations
j. Review/refresh (which will generate a new problem definition, thus making the process iterative)

LMR deliverables for this Phase 4 will at a minimum be:

a. SHSGP-PH4-9.5.1 Final Test Completion Report
b. SHSGP-PH4-9.5.2 Final Training Completion Report
c. SHSGP-PH4-9.5.3 Final Acceptance Report
d. SHSGP-PH4-9.5.4 Final Warranty Report

LTE deliverables for this Phase 3 will at a minimum be:

a. BTOP-PH4-9.5.1 Final Test Completion Report
b. BTOP-PH4-9.5.2 Final Training Completion Report
c. BTOP-PH4-9.5.3 Final Acceptance Report
d. BTOP-PH4-9.5.4 Final Warranty Report

APPENDIX A-2

STAFFING PLAN

[see attached]

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																					
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																		
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																	
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																	
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																												
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
J	**Program Director**	**David Roberts**	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1			**329**	**$180**	**$59,220**
Prelim	Program Director	David Roberts																																																																	145	$180	$26,100
1	Program Director	David Roberts	4	4	4	4	4	4	4	4	4	4	2	2	2																																																		46	$180	$8,280
2	Program Director	David Roberts											2	2	1	3	3	3	3	1	1																																												19	$180	$3,420
3	Program Director	David Roberts													1	1	1	1	1	3	3	2	2	2	2	2	2	2	2																																						27	$180	$4,860
4	Program Director	David Roberts																				2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1			92	$180	$16,560
5	Program Director	David Roberts																																																																		$180	
J	**Program Manager**	**Skip Funk**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			**11,723**	**$180**	**$2,110,140**
Prelim	Program Manager	Skip Funk	16	16	16	16	16	16	16																																																										2,955	$180	$531,900
1	Program Manager	Skip Funk	144	144	144	144	144	144	144	160	160	160	120	120	120																																																				1,848	$180	$332,640
2	Program Manager	Skip Funk											40	40	20	140	140	140	140	80	80	60	60	60	60	60	65	70	50	70	70	70																																			1,515	$180	$272,700
3	Program Manager	Skip Funk													20	20	10	10	10	70	70	60	60	60	60	60	65	70	40																																						685	$180	$123,300
4	Program Manager	Skip Funk															10	10	10	10	10	40	40	40	40	40	30	20	70	90	90	90	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,720	$180	$849,600
5	Program Manager	Skip Funk																																																																		$180	
F	**Sr. Project Manager - RS Technology**	**Rick Polehonka**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			**11,604**	**$165**	**$1,914,660**
Prelim	Sr. Project Manager - RS Technology	Rick Polehonka	40	40	40	40	40	40	40																																																										3,004	$165	$495,660
1	Sr. Project Manager - RS Technology	Rick Polehonka	120	120	120	120	120	120	120	160	160	160	120	120	120																																																				1,680	$165	$277,200
2	Sr. Project Manager - RS Technology	Rick Polehonka											40	40	20	140	140	140	140	80	80	60	60	60	60	60	65	70	50	70	70	70																																			1,515	$165	$249,975
3	Sr. Project Manager - RS Technology	Rick Polehonka													20	20	10	10	10	70	70	60	60	60	60	60	65	70	40																																						685	$165	$113,025
4	Sr. Project Manager - RS Technology	Rick Polehonka															10	10	10	10	10	40	40	40	40	40	30	20	70	90	90	90	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,720	$165	$778,800
5	Sr. Project Manager - RS Technology	Rick Polehonka																																																																		$165	
C	**Sr. Project Manager - Site/Cvil**	**Mohamad Younes**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			**11,740**	**$165**	**$1,937,100**
Prelim	Sr. Project Manager - Site/Cvil	Mohamad Younes	16	16	16	16	16	16	16																																																										2,972	$165	$490,380
1	Sr. Project Manager - Site/Cvil	Mohamad Younes	144	144	144	144	144	144	144	160	160	160	120	120	120																																																				1,848	$165	$304,920
2	Sr. Project Manager - Site/Cvil	Mohamad Younes											40	40	20	140	140	140	140	80	80	60	60	60	60	60	65	70	50	70	70	70																																			1,515	$165	$249,975
3	Sr. Project Manager - Site/Cvil	Mohamad Younes													20	20	10	10	10	70	70	60	60	60	60	60	65	70	40																																						685	$165	$113,025
4	Sr. Project Manager - Site/Cvil	Mohamad Younes															10	10	10	10	10	40	40	40	40	40	30	20	70	90	90	90	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,720	$165	$778,800
5	Sr. Project Manager - Site/Cvil	Mohamad Younes																																																																		$165	
J	**Program Controls Manager**	**Marc Glasser**	40	40	40	40	20	20	50	50	50	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															**1,182**	**$165**	**$195,030**
Prelim	Program Controls Manager	Marc Glasser																																																																272	$165	$44,880
1	Program Controls Manager	Marc Glasser	40	40	40	40	20	20	50	50	50	20	10	10	10																																																				400	$165	$66,000
2	Program Controls Manager	Marc Glasser											10	10	5	15	13	13	13	8	8	5	5	5	5	5	5	5	5	5	5	5																																			150	$165	$24,750
3	Program Controls Manager	Marc Glasser													5	5	2	2	2	7	7	5	5	5	5	5	5	5	2																																						67	$165	$11,055
4	Program Controls Manager	Marc Glasser															5	5	5	5	5	10	10	10	10	10			3	5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															293	$165	$48,345
5	Program Controls Manager	Marc Glasser																																																																	$165	
C	**Document Control**	**Vanessa Montes**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			**10,578**	**$65**	**$687,570**

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

Schedule - Core Team - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

Schedule - Core Team - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

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Schedule - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																	
Phase IV - Telecommunications System Training																					Training - 6 mos																																												
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																								
Phase V - System Maintenance																																					Maint																											

Schedule - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																				
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																	
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																													
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Prelim	Document Control	Vanessa Montes																
1	Document Control	Vanessa Montes	160	160	160	160	160	160	160	160	160	160	120	120	120			
2	Document Control	Vanessa Montes											40	40	20	140	140	140
3	Document Control	Vanessa Montes													20	20	10	10
4	Document Control	Vanessa Montes															10	10
5	Document Control	Vanessa Montes																
J	Administration	Marina Nyugen	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	Administration	Marina Nyugen	16	16	16	16	16	16	16									
1	Administration	Marina Nyugen	144	144	144	144	144	144	144	160	160	160	120	120	120			
2	Administration	Marina Nyugen											40	40	20	140	140	140
3	Administration	Marina Nyugen													20	20	10	10
4	Administration	Marina Nyugen															10	10
5	Administration	Marina Nyugen																
J	Administration Support	TBD	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	Administration Support	TBD																
1	Administration Support	TBD	160	160	160	160	160	160	160	160	160	160	120	120	120			
2	Administration Support	TBD											40	40	20	140	140	140
3	Administration Support	TBD													20	20	10	10
4	Administration Support	TBD															10	10
5	Administration Support	TBD																
F	Administration Support	Jerry Martin																
Prelim	Administration Support	Jerry Martin																
ODC	Other Direct Costs	$																
	Total Core Team		1004	1004	1004	1004	984	984	1014	1014	1014	984	984	984	984	984	984	984
F	System Manager - LTE	TBD	80	80	80	100	80	80	100	160	160	160	160	160	160	160	160	160
Prelim	System Manager - LTE	Chuck Hnot																
Prelim	System Manager - LTE	TBD	80	80	80	100	80	80	100									
1	System Manager - LTE	TBD								160	160	160						
2	System Manager - LTE	TBD											160	160	80	80	20	20
3	System Manager - LTE	TBD													80	80	20	20
4	System Manager - LTE	TBD															120	120
5	System Manager - LTE	TBD																
F	System Manager - LMR	Chris Odenthal	153	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	System Manager - LMR	Ric Martin																
Prelim	System Manager - LMR	Chris Odenthal																
1	System Manager - LMR	Chris Odenthal	153	160	160	160	160	160	160	160	160	160	160	160	160			

			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016		
Phase	POSITION	NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Prelim	Document Control	Vanessa Montes																		
1	Document Control	Vanessa Montes																		
2	Document Control	Vanessa Montes	140	80	80	60	60	60	60	60	65	70	50	70	70	70				
3	Document Control	Vanessa Montes	10	70	70	60	60	60	60	60	65	70	40							
4	Document Control	Vanessa Montes	10	10	10	40	40	40	40	40	30	20	70	90	90	90	160	160	160	160
5	Document Control	Vanessa Montes																		
J	Administration	Marina Nyugen	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	Administration	Marina Nyugen																		
1	Administration	Marina Nyugen																		
2	Administration	Marina Nyugen	140	80	80	60	60	60	60	60	65	70	50	70	70	70				
3	Administration	Marina Nyugen	10	70	70	60	60	60	60	60	65	70	40							
4	Administration	Marina Nyugen	10	10	10	40	40	40	40	40	30	20	70	90	90	90	160	160	160	160
5	Administration	Marina Nyugen																		
J	Administration Support	TBD	160	160	160	160	160	160	160	160	160	160	100	100	80	80	10	10	10	10
Prelim	Administration Support	TBD																		
1	Administration Support	TBD																		
2	Administration Support	TBD	140	80	80	60	60	60	60	60	70	70	50	90	70	70				
3	Administration Support	TBD	10	70	70	60	60	60	60	60	70	70	40							
4	Administration Support	TBD	10	10	10	40	40	40	40	40	20	20	10	10	10	10	10	10	10	10
5	Administration Support	TBD																		
F	Administration Support	Jerry Martin																		
Prelim	Administration Support	Jerry Martin																		
ODC	Other Direct Costs	$																		
	Total Core Team		984	984	984	984	984	984	984	984	974	974	914	914	894	894	824	824	824	824
F	System Manager - LTE	TBD	160	160	160	160	160	160	160	160	25	20	20	25	20	20	25	20	20	25
Prelim	System Manager - LTE	Chuck Hnot																		
Prelim	System Manager - LTE	TBD																		
1	System Manager - LTE	TBD																		
2	System Manager - LTE	TBD	20	20	20															
3	System Manager - LTE	TBD	20	20	20															
4	System Manager - LTE	TBD	120	120	120	160	160	160	160	160	25	20	20	25	20	20	25	20	20	25
5	System Manager - LTE	TBD																		
F	System Manager - LMR	Chris Odenthal	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	System Manager - LMR	Ric Martin																		
Prelim	System Manager - LMR	Chris Odenthal																		
1	System Manager - LMR	Chris Odenthal																		

			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017		
Phase	POSITION	NAME	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Prelim	Document Control	Vanessa Montes																		
1	Document Control	Vanessa Montes																		
2	Document Control	Vanessa Montes																		
3	Document Control	Vanessa Montes																		
4	Document Control	Vanessa Montes	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
5	Document Control	Vanessa Montes																		
J	Administration	Marina Nyugen	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	Administration	Marina Nyugen																		
1	Administration	Marina Nyugen																		
2	Administration	Marina Nyugen																		
3	Administration	Marina Nyugen																		
4	Administration	Marina Nyugen	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
5	Administration	Marina Nyugen																		
J	Administration Support	TBD	10	10																
Prelim	Administration Support	TBD																		
1	Administration Support	TBD																		
2	Administration Support	TBD																		
3	Administration Support	TBD																		
4	Administration Support	TBD	10	10																
5	Administration Support	TBD																		
F	Administration Support	Jerry Martin																		
Prelim	Administration Support	Jerry Martin																		
ODC	Other Direct Costs	$		39,928																
	Total Core Team		824	824	812	812	812	812	812	812	812	812	812	812	812	812	812	812	801	801
F	System Manager - LTE	TBD	20	20																
Prelim	System Manager - LTE	Chuck Hnot																		
Prelim	System Manager - LTE	TBD																		
1	System Manager - LTE	TBD																		
2	System Manager - LTE	TBD																		
3	System Manager - LTE	TBD																		
4	System Manager - LTE	TBD	20	20																
5	System Manager - LTE	TBD																		
F	System Manager - LMR	Chris Odenthal	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	System Manager - LMR	Ric Martin																		
Prelim	System Manager - LMR	Chris Odenthal																		
1	System Manager - LMR	Chris Odenthal																		

			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
Prelim	Document Control	Vanessa Montes													1,698	$65	$110,370
1	Document Control	Vanessa Montes													1,960	$65	$127,400
2	Document Control	Vanessa Montes													1,515	$65	$98,475
3	Document Control	Vanessa Montes													685	$65	$44,525
4	Document Control	Vanessa Montes	80	80	100	40	40	50	40	40	50	40			4,720	$65	$306,800
5	Document Control	Vanessa Montes														$65	
J	Administration	Marina Nyugen	80	80	100	40	40	50	40	40	50	40			11,512	$55	$633,160
Prelim	Administration	Marina Nyugen													2,744	$55	$150,920
1	Administration	Marina Nyugen													1,848	$55	$101,640
2	Administration	Marina Nyugen													1,515	$55	$83,325
3	Administration	Marina Nyugen													685	$55	$37,675
4	Administration	Marina Nyugen	80	80	100	40	40	50	40	40	50	40			4,720	$55	$259,600
5	Administration	Marina Nyugen														$55	
J	Administration Support	TBD													4,580	$55	$251,900
Prelim	Administration Support	TBD														$55	
1	Administration Support	TBD													1,960	$55	$107,800
2	Administration Support	TBD													1,540	$55	$84,700
3	Administration Support	TBD													690	$55	$37,950
4	Administration Support	TBD													390	$55	$21,450
5	Administration Support	TBD														$55	
F	Administration Support	Jerry Martin													197	$55	$10,835
Prelim	Administration Support	Jerry Martin													197	$55	$10,835
ODC	Other Direct Costs	$										9,552					$50,000
	Total Core Team		401	401	501	201	201	251	201	201	251	201			63,445	$123	$7,849,615
F	System Manager - LTE	TBD													3,824	$160	$611,840
Prelim	System Manager - LTE	Chuck Hnot													244	$160	$39,040
Prelim	System Manager - LTE	TBD													600	$160	$96,000
1	System Manager - LTE	TBD													480	$160	$76,800
2	System Manager - LTE	TBD													580	$160	$92,800
3	System Manager - LTE	TBD													260	$160	$41,600
4	System Manager - LTE	TBD													1,660	$160	$265,600
5	System Manager - LTE	TBD														$160	
F	System Manager - LMR	Chris Odenthal	80	80	100	40	40	50	40	40	50	40			11,693	$160	$1,870,800
Prelim	System Manager - LMR	Ric Martin													1,830	$160	$292,800
Prelim	System Manager - LMR	Chris Odenthal													990	$160	$158,320
1	System Manager - LMR	Chris Odenthal													2,073	$160	$331,680

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																															
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

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		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																															
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																														
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																		
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																	
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																												
Phase IV - Telecommunications System Implementation & Warranty																												Implementation - Test - Training - Acceptance - 24 mos																							Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
2	System Manager - LMR	Chris Odenthal														160	160	160	160	80	80	80	80	80	80	80	80	80	80	80	80	80																																					1,680	$160	$268,800
3	System Manager - LMR	Chris Odenthal																		80	80	80	80	80	80	80	80	80	20																																								740	$160	$118,400
4	System Manager - LMR	Chris Odenthal																											60	80	80	80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,380	$160	$700,800
5	System Manager - LMR	Chris Odenthal																																																																	$160	
F	**System Design - Backbone Network**	**TBD**	127	160	160	160	160	160	160	160	160	160	160	160	160	160	140	140	140	120	120	120	120	120	120	80		80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80														7,427	$155	$1,151,185
Prelim	System Design - Backbone Network	TBD																																																																	$155	
1	System Design - Backbone Network	TBD	127	160	160	160	160	160	160	160	160	160	80	80	80	80	60	60	60																																															2,067	$155	$320,385
2	System Design - Backbone Network	TBD											80	80	40	40	20	20	20	20	20																																														340	$155	$52,700
3	System Design - Backbone Network	TBD													40	40	20	20	20	20	20																																														180	$155	$27,900
4	System Design - Backbone Network	TBD															40	40	40	80	80	120	120	120	120	80		80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80														4,840	$155	$750,200
5	System Design - Backbone Network	TBD																																																																$155	
F	**System Design - RF Network**	**TBD**	120	160	160	160	160	160	160	160	160	160	160	160	160	160	140	140	140	120	120	120	120	120	120	80		80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80														8,798	$155	$1,363,690
Prelim	System Design - RF Network	Miscellaneous																																																															1,378	$155	$213,590
1	System Design - RF Network	TBD	120	160	160	160	160	160	160	160	160	160	80	80	80	80	60	60	60																																															2,060	$155	$319,300
2	System Design - RF Network	TBD											80	80	40	40	20	20	20	20	20																																														340	$155	$52,700
3	System Design - RF Network	TBD													40	40	20	20	20	20	20																																														180	$155	$27,900
4	System Design - RF Network	TBD															40	40	40	80	80	120	120	120	120	80		80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80														4,840	$155	$750,200
5	System Design - RF Network	TBD																																																																$155	
F	**Supply and Staging - Site Equipment**	**TBD**												40	100	80	80	100	80	160	160	120	120	120	120	120	80	80	80	50	40	40	50	40	40	50																															1,950	$160	$312,000
Prelim	Supply and Staging - Site Equipment	TBD																																																																$160	
1	Supply and Staging - Site Equipment	TBD																																																																$160	
2	Supply and Staging - Site Equipment	TBD																																																																$160	
3	Supply and Staging - Site Equipment	TBD												40	100	80	40	50	40	120	120	80	80	80	80	80	80	80	80																																								1,230	$160	$196,800
4	Supply and Staging - Site Equipment	TBD															40	50	40	40	40	40	40	40	40	40				50	40	40	50	40	40	50																															720	$160	$115,200
5	Supply and Staging - Site Equipment	TBD																																																																	$160	
A	**Site Assessment**	**Alexander Van Elden**																																																															622	$142	$88,324
Prelim	Site Assessment	Alexander Van Elden																																																															622	$142	$88,324
J	**Constructibility/Design Review**	**TBD**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80																																			4,640	$142	$658,880
Prelim	Constructibility/Design Review	TBD																																																																$142	
1	Constructibility/Design Review	TBD	160	160	160	160	160	160	160	160	160	160	60	60	60																																																				1,780	$142	$252,760
2	Constructibility/Design Review	TBD											100	100	100	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80																																			2,860	$142	$406,120
3	Constructibility/Design Review	TBD																																																																	$142	
4	Constructibility/Design Review	TBD																																																																	$142	
5	Constructibility/Design Review	TBD																																																																	$142	
F	**Constructibility/Design Review**	**Terry Forehand**																																																															22	$142	$3,053
Prelim	Constructibility/Design Review	Terry Forehand																																																															22	$142	$3,053

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

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		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																									
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																							
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																					
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																				
Phase IV - Telecommunications System Training																					Training - 6 mos																																																	
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																																	
Phase V - System Maintenance																																					Maint																												

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																					
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																				
Phase III - Supply Telecommunication System Components																	Purchase Equipment - 10 mos																																																			
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
F	**Team Leader - P.E. Technology**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,840**	**$155**	**$595,200**
Prelim	Team Leader - P.E. Technology	TBD																																																																$155	
1	Team Leader - P.E. Technology	TBD																																																																$155	
2	Team Leader - P.E. Technology	TBD																40	40	40	40	40	40	40	40	40	40	80																																							480	$155	$74,400
3	Team Leader - P.E. Technology	TBD																																																																	$155	
4	Team Leader - P.E. Technology	TBD														80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$155	$520,800
5	Team Leader - P.E. Technology	TBD																																																																	$155	
F	**P.E. Technology - 1**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**4,368**	**$150**	**$655,200**
Prelim	P.E. Technology - 1	Ramin Hafezi																																																															528	$150	$79,200
1	P.E. Technology - 1	TBD																																																																	$150	
2	P.E. Technology - 1	TBD																40	40	40	40	40	40	40	40	40	40	80																																							480	$150	$72,000
3	P.E. Technology - 1	TBD																																																																	$150	
4	P.E. Technology - 1	TBD														80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 1	TBD																																																																	$150	
F	**P.E. Technology - 2**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**4,136**	**$150**	**$620,400**
Prelim	P.E. Technology - 2	Tim Smoak																																																															296	$150	$44,400
1	P.E. Technology - 2	TBD																																																																	$150	
2	P.E. Technology - 2	TBD																40	40	40	40	40	40	40	40	40	40	80																																							480	$150	$72,000
3	P.E. Technology - 2	TBD																																																																	$150	
4	P.E. Technology - 2	TBD														80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 2	TBD																																																																	$150	
F	**P.E. Technology - 3**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,971**	**$150**	**$595,650**
Prelim	P.E. Technology - 3	Rajit Jhaver																																																															131	$150	$19,650
1	P.E. Technology - 3	TBD																																																																	$150	
2	P.E. Technology - 3	TBD																40	40	40	40	40	40	40	40	40	40	80																																							480	$150	$72,000
3	P.E. Technology - 3	TBD																																																																	$150	
4	P.E. Technology - 3	TBD														80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 3	TBD																																																																	$150	
F	**P.E. Technology - 4**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,950**	**$150**	**$592,500**
Prelim	P.E. Technology - 4	David Brooks																																																															110	$150	$16,500
1	P.E. Technology - 4	TBD																																																																	$150	
2	P.E. Technology - 4	TBD																40	40	40	40	40	40	40	40	40	40	80																																							480	$150	$72,000
3	P.E. Technology - 4	TBD																																																																	$150	
4	P.E. Technology - 4	TBD														80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 4	TBD																																																																	$150	
F	**P.E. Technology - 5**	**TBD**														80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,936**	**$150**	**$590,400**

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

Schedule - Core Team - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

Schedule - Core Team - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

As of 24 Sep 13

Schedule - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																									
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																															
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																
Phase IV - Telecommunications System Training																					Training - 6 mos																																												
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																								
Phase V - System Maintenance																																					Maint																											

Schedule - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																		
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																													
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
Prelim	P.E. Technology - 5	Luis Camarillo																																																															96	$150	$14,400
1	P.E. Technology - 5	TBD																																																																$150	
2	P.E. Technology - 5	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 5	TBD																																																																$150	
4	P.E. Technology - 5	TBD													80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 5	TBD																																																																$150	
F	**P.E. Technology - 6**	**TBD**													80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,840**	**$150**	**$576,000**
Prelim	P.E. Technology - 6	TBD																																																															$150	
1	P.E. Technology - 6	TBD																																																																$150	
2	P.E. Technology - 6	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 6	TBD																																																																$150	
4	P.E. Technology - 6	TBD													80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 6	TBD																																																																$150	
F	**P.E. Technology - 7**	**TBD**													80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,840**	**$150**	**$576,000**
Prelim	P.E. Technology - 7	TBD																																																															$150	
1	P.E. Technology - 7	TBD																																																																$150	
2	P.E. Technology - 7	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 7	TBD																																																																$150	
4	P.E. Technology - 7	TBD													80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 7	TBD																																																																$150	
F	**P.E. Technology - 8**	**TBD**													80	160	160	160	160	160	160	160	160	160	160	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																										**3,840**	**$150**	**$576,000**
Prelim	P.E. Technology - 8	TBD																																																															$150	
1	P.E. Technology - 8	TBD																																																																$150	
2	P.E. Technology - 8	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 8	TBD																																																																$150	
4	P.E. Technology - 8	TBD													80	160	120	120	120	120	120	120	120	120	120			160	160	160	160	160	160	160	160	160	160	160	160	120																										3,360	$150	$504,000
5	P.E. Technology - 8	TBD																																																																$150	
J	**Team Leader - Site/Civil**	**TBD**		80	80	80	80	80	80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	40																											**4,680**	**$155**	**$725,400**
Prelim	Team Leader - Site/Civil	TBD																																																																$155	
1	Team Leader - Site/Civil	TBD		80	80	80	80	80	80	80	80	80	80	80	80																																																				960	$155	$148,800
2	Team Leader - Site/Civil	TBD								80	80	80	80	80	80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	40																											3,720	$155	$576,600
3	Team Leader - Site/Civil	TBD																																																																$155	
4	Team Leader - Site/Civil	TBD																																																																$155	
5	Team Leader - Site/Civil	TBD																																																																$155	
C	**P.E. Site/Civil - 1**	**TBD**										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																						**4,112**	**$150**	**$616,800**
Prelim	P.E. Site/Civil - 1	Salim Sioufi																																																																912	$150	$136,800

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

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		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																															
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																	
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																		
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																														
Phase IV - Telecommunications System Implementation & Warranty																										Implementation - Test - Training - Acceptance - 24 mos																									Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
1	P.E. Site/Civil - 1	TBD																																																																$150	
2	P.E. Site/Civil - 1	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 1	TBD																																																																$150	
4	P.E. Site/Civil - 1	TBD																																																																$150	
5	P.E. Site/Civil - 1	TBD																																																																$150	
J	**P.E. Site/Civil - 2**	**TBD**										**80**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**80**																																			**3,718**	**$150**	**$557,700**
Prelim	P.E. Site/Civil - 2	Peter Jambritis																																																															518	$150	$77,700
1	P.E. Site/Civil - 2	TBD																																																																$150	
2	P.E. Site/Civil - 2	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 2	TBD																																																																$150	
4	P.E. Site/Civil - 2	TBD																																																																$150	
5	P.E. Site/Civil - 2	TBD																																																																$150	
J	**P.E. Site/Civil - 3**	**TBD**										**80**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**80**																																			**3,531**	**$150**	**$529,650**
Prelim	P.E. Site/Civil - 3	Kapiji Kamara																																																															331	$150	$49,650
1	P.E. Site/Civil - 3	TBD																																																																$150	
2	P.E. Site/Civil - 3	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 3	TBD																																																																$150	
4	P.E. Site/Civil - 3	TBD																																																																$150	
5	P.E. Site/Civil - 3	TBD																																																																$150	
J	**P.E. Site/Civil - 4**	**TBD**										**80**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**80**																																			**3,200**	**$150**	**$480,000**
Prelim	P.E. Site/Civil - 4	TBD																																																																$150	
1	P.E. Site/Civil - 4	TBD																																																																$150	
2	P.E. Site/Civil - 4	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 4	TBD																																																																$150	
4	P.E. Site/Civil - 4	TBD																																																																$150	
5	P.E. Site/Civil - 4	TBD																																																																$150	
J	**P.E. Site/Civil - 5**	**TBD**										**80**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**80**																																			**3,200**	**$150**	**$480,000**
Prelim	P.E. Site/Civil - 5	TBD																																																																$150	
1	P.E. Site/Civil - 5	TBD																																																																$150	
2	P.E. Site/Civil - 5	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 5	TBD																																																																$150	
4	P.E. Site/Civil - 5	TBD																																																																$150	
5	P.E. Site/Civil - 5	TBD																																																																$150	
J	**P.E. Site/Civil - 6**	**TBD**										**80**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**160**	**80**																																			**3,200**	**$150**	**$480,000**
Prelim	P.E. Site/Civil - 6	TBD																																																																$150	
1	P.E. Site/Civil - 6	TBD																																																																$150	

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

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		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																															
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																														
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																												
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
2	P.E. Site/Civil - 6	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 6	TBD																																																																	$150	
4	P.E. Site/Civil - 6	TBD																																																																	$150	
5	P.E. Site/Civil - 6	TBD																																																																	$150	
J	**P.E. Site/Civil - 7**	**TBD**										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			**3,200**	**$150**	**$480,000**
Prelim	P.E. Site/Civil - 7	TBD																																																																	$150	
1	P.E. Site/Civil - 7	TBD																																																																	$150	
2	P.E. Site/Civil - 7	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 7	TBD																																																																	$150	
4	P.E. Site/Civil - 7	TBD																																																																	$150	
5	P.E. Site/Civil - 7	TBD																																																																	$150	
J	**P.E. Site/Civil - 8**	**TBD**										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			**3,200**	**$150**	**$480,000**
Prelim	P.E. Site/Civil - 8	TBD																																																																	$150	
1	P.E. Site/Civil - 8	TBD																																																																	$150	
2	P.E. Site/Civil - 8	TBD										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80																																			3,200	$150	$480,000
3	P.E. Site/Civil - 8	TBD																																																																	$150	
4	P.E. Site/Civil - 8	TBD																																																																	$150	
5	P.E. Site/Civil - 8	TBD																																																																	$150	
C	**Contract Compliance - Internal**	**Tom Bugbee**																																																															**31**	**$160**	**$4,960**
Prelim	Contract Compliance - Internal	Tom Bugbee																																																															31	$160	$4,960
J	**Contract Compliance - Internal**	**Todd Ritchie**	-27	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			**225**	**$160**	**$36,000**
Prelim	Contract Compliance - Internal	Todd Ritchie	-31																																																															29	$160	$4,640
1	Contract Compliance - Internal	Todd Ritchie	4	4	4	4	4	4	4	4	4	4	2	2	2	1	1	1	1																																																50	$160	$8,000
2	Contract Compliance - Internal	Todd Ritchie											2	2	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1																																			28	$160	$4,480
3	Contract Compliance - Internal	Todd Ritchie													1	1				1	1	1	1	1	1	1	1	1	1																																						12	$160	$1,920
4	Contract Compliance - Internal	Todd Ritchie															1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			106	$160	$16,960
5	Contract Compliance - Internal	Todd Ritchie																																																																		$160	
J	**Community Outreach**	**TBD**		420	640	640	580	540	520	520	400	360	160	160	160																																																				**5,100**	**$195**	**$994,500**
Prelim	Community Outreach	TBD		340	480	480	420	380	360																																																								2,460	$195	$479,700
1	Community Outreach	TBD		80	160	160	160	160	160	520	400	360	80	80	80																																																				2,400	$195	$468,000
2	Community Outreach	TBD											80	80	80																																																				240	$195	$46,800
3	Community Outreach	TBD																																																																	$195	
4	Community Outreach	TBD																																																																	$195	
5	Community Outreach	TBD																																																																	$195	
A	**Scheduling**	**Devang Dedhia**	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			**9,002**	**$142**	**$1,278,284**
Prelim	Scheduling	Devang Dedhia																																																																482	$142	$68,444

Rebaseline

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

Schedule - Core Team - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																	
Phase I - System Design																																																																	
Phase II - Supply Telecommunication System Components																																																																	
Phase III - Site Construct and Site Modification																																																																	
Phase IV - Telecommunications System Implementation																																																																	
Phase V - Telecommunications System Warranty																																																																	

Schedule - Core Team - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																	
Phase I - System Design																																																																	
Phase II - Supply Telecommunication System Components																																																																	
Phase III - Site Construct and Site Modification																																																																	
Phase IV - Telecommunications System Implementation																																																																	
Phase V - Telecommunications System Warranty																																																																	

As of 24 Sep 13

Schedule - Long Term Evolution (LTE)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																																
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																		
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																	
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

Schedule - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																	
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																	
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																														
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
1	Scheduling	Devang Dedhia	160	160	160	160	160	160	160	160	160	160	120	120	120																																																		1,960	$142	$278,320
2	Scheduling	Devang Dedhia											40	40	20	140	140	140	140	80	80	60	60	60	60	60	70	70	70	70	70	70																																			1,540	$142	$218,680
3	Scheduling	Devang Dedhia													20	20	10	10	10	70	70	60	60	60	60	60	70	70	40																																								690	$142	$97,980
4	Scheduling	Devang Dedhia															10	10	10	10	10	40	40	40	40	40	20	20	50	90	90	90	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			4,330	$142	$614,860
5	Scheduling	Devang Dedhia																																																																	$142	
J	Estimating	Richter Schneider	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															877	$142	$124,534
Prelim	Estimating	Richter Schneider																																																															137	$142	$19,454
1	Estimating	Richter Schneider	20	20	20	20	20	20	20	20	20	20	10	10	10																																																		230	$142	$32,660
2	Estimating	Richter Schneider											10	10	5	15	15	15	15	10	10	5	5	5	5	5	5	5	5	5	5	5																																			160	$142	$22,720
3	Estimating	Richter Schneider													5	5	3	3	3	8	8	5	5	5	5	5	5	5	2																																								72	$142	$10,224
4	Estimating	Richter Schneider															2	2	2	2	2	10	10	10	10	10			3	5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															278	$142	$39,476
5	Estimating	Richter Schneider																																																																	$142	
J	Estimator Support	N/A																																																															14	$130	$1,820
Prelim	Estimator Support	Grace Lee																																																															14	$130	$1,820
J	Environmental	TBD	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	120	120	20	20	25	20	20	25	20	20	25	20	20																																			3,195	$160	$511,200
Prelim	Environmental	TBD																																																																	$160	
1	Environmental	TBD	160	160	160	160	160	160	160	160	160	160	80	80	80	40	40	40	40																																																2,000	$160	$320,000
2	Environmental	TBD											80	80	80	120	120	120	120	120	120	20	20	25	20	20	25	20	20	25	20	20																																			1,195	$160	$191,200
3	Environmental	TBD																																																																	$160	
4	Environmental	TBD																																																																	$160	
5	Environmental	TBD																																																																	$160	
ODC	Other Direct Costs	$													50,000																							160,000																													40,000					$250,000
	Total Non-Core		953	1564	1784	1804	1724	1684	1684	1824	1704	2304	2744	2784	2844	3384	4064	4084	4064	4064	4064	3924	3924	3929	3924	3844	2424	2934	3814	3794	3694	2974	2249	2234	2234	2249	2194	2194	2172	2132	1732	652	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			125,181	$154	$19,467,970
	Grand Total		1957	2568	2788	2808	2708	2668	2698	2838	2718	3288	3728	3768	3828	4368	5048	5068	5048	5048	5048	4908	4908	4913	4908	4828	3398	3908	4728	4708	4588	3868	3073	3058	3058	3073	3018	3018	2984	2944	2544	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			188,626	$143	$27,317,585

Rebaseline

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																				
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																			
Phase I - System Design																																																																			
Phase II - Supply Telecommunication System Components																																																																			
Phase III - Site Construct and Site Modification																																																																			
Phase IV - Telecommunications System Implementation																																																																			
Phase V - Telecommunications System Warranty																																																																			

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																			
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																			
Phase I - System Design																																																																			
Phase II - Supply Telecommunication System Components																																																																			
Phase III - Site Construct and Site Modification																																																																			
Phase IV - Telecommunications System Implementation																																																																			
Phase V - Telecommunications System Warranty																																																																			

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																																
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																	
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																															
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																															
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																	
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																															
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																												
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		88	88	88	88	88	88	88																																																									13,987	$133	$1,861,045
1	Phase I - System Design		916	916	916	916	896	896	926	1014	1014	984	732	732	732																																																		11,590	$114	$1,325,880
2	Phase II - Supply Telecommunication System Components												252	252	126	858	856	856	856	489	489	365	365	365	365	365	400	425	305	445	425	425																																			9,284	$115	$1,067,320
3	Phase III - Site Construct and Site Modification														126	126	63	63	63	430	430	367	367	367	367	367	402	427	244																																							4,209	$115	$485,415
4	Phase IV - Telecommunications System Implementation																65	65	65	65	65	252	252	252	252	252	172	122	365	469	469	469	824	824	824	824	824	824	812	812	812	812	812	812	812	812	812	812	812	812	812	812	801	801	401	401	501	201	201	251	201	201	251	201			24,375	$126	$3,059,955
5	Phase V - Telecommunications System Warranty																																																																					
ODC	Other Direct Costs																																					39,928																											9,552					$50,000
	Core Team by Phase		1004	1004	1004	1004	984	984	1014	1014	1014	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984	974	974	914	914	894	894	824	824	824	824	824	824	812	812	812	812	812	812	812	812	812	812	812	812	812	812	801	801	401	401	501	201	201	251	201	201	251	201			63,445	$123	$7,849,615
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		49	420	560	580	500	460	460																																																									11,760	$162	$1,908,445
1	Phase I - System Design		904	1144	1224	1224	1224	1224	1224	1744	1624	1584	752	752	752	201	161	161	161																																															16,060	$159	$2,556,705
2	Phase II - Supply Telecommunication System Components									80	80	720	1992	1992	1806	2197	2097	2457	2457	2312	2312	2126	2126	2131	2126	2126	2141	2496	1776	1781	1,696	976	80	80	80	80	80	80	80	40																													42,603	$151	$6,424,000
3	Phase III - Site Construct and Site Modification													40	286	266	113	123	113	339	339	226	226	226	226	226	236	236	143																																								3,364	$155	$522,724
4	Phase IV - Telecommunications System Implementation															720	1693	1343	1333	1413	1413	1572	1572	1572	1572	1492	47	202	1895	2013	1,998	1,998	2,169	2,154	2,154	2,169	2,114	2,114	2,092	2,092	1,732	652	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			51,394	$152	$7,806,096
5	Phase V - Telecommunications System Warranty																																																																					
ODC	Other Direct Costs														50,000																							160,000																											40,000					$250,000
	Non-Core Team by Phase		953	1564	1784	1804	1724	1684	1684	1824	1704	2304	2744	2784	2844	3384	4064	4084	4064	4064	4064	3924	3924	3929	3924	3844	2424	2934	3814	3794	3694	2974	2249	2234	2234	2249	2194	2194	2172	2132	1732	652	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			125,181	$154	$19,467,970
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		137	508	648	668	588	548	548																																																									25,747	$146	$3,769,490
1	Phase I - System Design		1820	2060	2140	2140	2120	2120	2150	2758	2638	2568	1484	1484	1484	201	161	161	161																																															27,650	$140	$3,882,585
2	Phase II - Supply Telecommunication System Components									80	80	720	2244	2244	1932	3055	2953	3313	3313	2801	2801	2491	2491	2496	2491	2491	2541	2921	2081	2226	2,121	1,401	80	80	80	80	80	80	80	40																													51,887	$144	$7,491,320
3	Phase III - Site Construct and Site Modification													40	412	392	176	186	176	769	769	593	593	593	593	593	638	663	387																																								7,573	$133	$1,008,139
4	Phase IV - Telecommunications System Implementation															720	1758	1408	1398	1478	1478	1824	1824	1824	1824	1744	219	324	2260	2482	2,467	2,467	2,993	2,978	2,978	2,993	2,938	2,938	2,904	2,904	2,544	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,163	1,013	523	523	653	283	283	353	283	283	353	283			75,769	$143	$10,866,051
5	Phase V - Telecommunications System Warranty																																																																					
ODC	Other Direct Costs														50,000																							199,928																											49,552					$300,000
	Total by Phase		1957	2568	2788	2808	2708	2668	2698	2838	2718	3288	3728	3768	3828	4368	5048	5068	5048	5048	5048	4908	4908	4913	4908	4828	3398	3908	4728	4708	4588	3868	3073	3058	3058	3073	3018	3018	2984	2944	2544	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			188,626	$143	$27,317,585
J	Jacobs		837	1368	1588	1588	1508	1468	1478	1558	1438	1928	2288	2288	2288	2128	2128	2128	2128	2088	2088	1988	1988	1993	1988	1988	1973	1968	1908	1913	1,808	1,168	438	438	438	438	438	438	424	384	344	344	344	344	344	344	344	344	344	344	344	344	323	323	163	163	203	83	83	103	83	83	103	83			71,306	$137	$9,789,134
A	APSI		160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			9,624	$142	$1,366,608
C	Citadel		320	320	320	320	320	320	320	320	320	400	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	400	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	160	160	200	80	80	100	80	80	100	80			26,461	$123	$3,246,430
F	Federal		640	720	720	740	720	720	740	800	800	800	800	840	900	1600	2280	2300	2280	2320	2320	2280	2280	2280	2280	2200	785	1300	2180	2155	2,140	2,140	2,155	2,140	2,140	2,155	2,100	2,100	2,080	2,080	1,720	640	640	640	640	640	640	640	640	640	640	640	480	320	160	160	200	80	80	100	80	80	100	80			81,235	$155	$12,615,413
O	Other																																																																				
ODC	Other Direct Costs														50,000																							199,928																											49,552					$300,000
	Total by Company		1957	2568	2788	2808	2708	2668	2698	2838	2718	3288	3728	3768	3828	4368	5048	5068	5048	5048	5048	4908	4908	4913	4908	4828	3398	3908	4728	4708	4588	3868	3073	3058	3058	3073	3018	3018	2984	2944	2544	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			188,626	$143	$27,317,585

Long Term Evolution (LTE)	46,861	$155	$7,283,179

Los Angeles Regional Interoperable Communications Systems (LA RICS) Grand Total - Schedule and Fee

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017			Q1 - 2017		
Schedule - Core Team - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	FEB	JAN	FEB	MAR
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Negotiation and Start-up																																																																
Phase I - System Design																																																																
Phase II - Supply Telecommunication System Components																																																																
Phase III - Site Construct and Site Modification																																																																
Phase IV - Telecommunications System Implementation																																																																
Phase V - Telecommunications System Warranty																																																																

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																					
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																		
Phase IV - Telecommunications System Implementation															Implement - Test - Train - Accept - 10 mos																																																		
Phase IV - Telecommunications System Training																					Training - 6 mos																																												
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																							
Phase V - System Maintenance																																					Maint																											

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																	
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																														
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
																																																																		Land Mobil Radio (LMR)	141,765	$141	$20,034,406
																																																																	Grand Total	188,626	$145	$27,317,585

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	Q4 - 2013				Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Receipt of Notice to Proceed - March 29, 2012																																																					
Preliminary Phase - Mobilization, Start-up, and Program Support		Mobilization																																																			
Phase I - System Design								Design - 3 mos																																															
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																															
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																														
Phase IV - Telecommunications System Implementation														Implement - Test - Accept - 10 mos																																													
Phase IV - Telecommunications System Training																				Training - 6 mos																																				
Phase IV - Telecommunications System Warranty																							Warranty - 12 mos																																		
Phase V - System Maintenance																																					Maint																	

Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
			Q4 - 2013				Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
J	**Program Director**	**David Roberts**								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																			**99**	**$180**	**$17,730**
Prelim	Program Director	David Roberts																																																							41	$180	$7,290
1	Program Director	David Roberts								2	2	2																																												6	$180	$1,080
2	Program Director	David Roberts											2	2	1	1	1	1	1	1	1																																				11	$180	$1,980
3	Program Director	David Roberts													1	1	1	1	1	1	1																																				7	$180	$1,260
4	Program Director	David Roberts																				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																			34	$180	$6,120
5	Program Director	David Roberts																																																							$180	
J	**Program Manager**	**Skip Funk**	16	16	16	16	16	16	16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			**1,693**	**$180**	**$304,740**
Prelim	Program Manager	Skip Funk	16	16	16	16	16	16	16																																															763	$180	$137,340
1	Program Manager	Skip Funk								40	40	40																																												120	$180	$21,600
2	Program Manager	Skip Funk											40	40	20	20	20	20	20	20	20																																				220	$180	$39,600
3	Program Manager	Skip Funk													20	20	10	10	10	10	10																																				90	$180	$16,200
4	Program Manager	Skip Funk															10	10	10	10	10	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			500	$180	$90,000
5	Program Manager	Skip Funk																																																					$180	
F	**Sr. Project Manager - RS Technology**	**Rick Polehonka**	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			**2,589**	**$165**	**$427,103**
Prelim	Sr. Project Manager - RS Technology	Rick Polehonka	40	40	40	40	40	40	40																																														1,659	$165	$273,653
1	Sr. Project Manager - RS Technology	Rick Polehonka								40	40	40																																												120	$165	$19,800
2	Sr. Project Manager - RS Technology	Rick Polehonka											40	40	20	20	20	20	20	20	20																																				220	$165	$36,300
3	Sr. Project Manager - RS Technology	Rick Polehonka													20	20	10	10	10	10	10																																				90	$165	$14,850
4	Sr. Project Manager - RS Technology	Rick Polehonka															10	10	10	10	10	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			500	$165	$82,500
5	Sr. Project Manager - RS Technology	Rick Polehonka																																																					$165	
C	**Sr. Project Manager - Site/Cvil**	**Mohamad Younes**	16	16	16	16	16	16	16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			**2,039**	**$165**	**$336,353**
Prelim	Sr. Project Manager - Site/Cvil	Mohamad Younes	16	16	16	16	16	16	16																																														1,109	$165	$182,903
1	Sr. Project Manager - Site/Cvil	Mohamad Younes								40	40	40																																											120	$165	$19,800
2	Sr. Project Manager - Site/Cvil	Mohamad Younes											40	40	20	20	20	20	20	20	20																																				220	$165	$36,300
3	Sr. Project Manager - Site/Cvil	Mohamad Younes													20	20	10	10	10	10	10																																				90	$165	$14,850
4	Sr. Project Manager - Site/Cvil	Mohamad Younes															10	10	10	10	10	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			500	$165	$82,500
5	Sr. Project Manager - Site/Cvil	Mohamad Younes																																																				$165	
J	**Program Controls Manager**	**Marc Glasser**								40	40	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																																		**347**	**$165**	**$57,255**
Prelim	Program Controls Manager	Marc Glasser																																																					117	$165	$19,305
1	Program Controls Manager	Marc Glasser								40	40	10																																												90	$165	$14,850
2	Program Controls Manager	Marc Glasser											10	10	5	5	3	3	3	3	3																																				45	$165	$7,425
3	Program Controls Manager	Marc Glasser													5	5	2	2	2	2	2																																				20	$165	$3,300
4	Program Controls Manager	Marc Glasser															5	5	5	5	5	10	10	10	10	10																																75	$165	$12,375
5	Program Controls Manager	Marc Glasser																																																					$165	
C	**Document Control**	**Vanessa Montes**								40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			**1,255**	**$65**	**$81,575**
Prelim	Document Control	Vanessa Montes																																																					325	$65	$21,125
1	Document Control	Vanessa Montes								40	40	40																																											120	$65	$7,800
2	Document Control	Vanessa Montes											40	40	20	20	20	20	20	20	20																																				220	$65	$14,300
3	Document Control	Vanessa Montes													20	20	10	10	10	10	10																																				90	$65	$5,850
4	Document Control	Vanessa Montes															10	10	10	10	10	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			500	$65	$32,500
5	Document Control	Vanessa Montes																																																				$65	
J	**Administration**	**Marina Nyugen**	16	16	16	16	16	16	16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			**1,740**	**$55**	**$95,686**
Prelim	Administration	Marina Nyugen	16	16	16	16	16	16	16																																														810	$55	$44,536
1	Administration	Marina Nyugen								40	40	40																																											120	$55	$6,600
2	Administration	Marina Nyugen											40	40	20	20	20	20	20	20	20																																				220	$55	$12,100
3	Administration	Marina Nyugen													20	20	10	10	10	10	10																																				90	$55	$4,950
4	Administration	Marina Nyugen															10	10	10	10	10	40	40	40	40	40	30	20	20	20	20	20	20	20	20	20	20	20																			500	$55	$27,500
5	Administration	Marina Nyugen																																																				$55	
J	**Administration Support**	**TBD**								40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	20	20	10	10	10	10	10	10	10	10	10	10																			**820**	**$55**	**$45,100**
Prelim	Administration Support	TBD																																																							$55	
1	Administration Support	TBD								40	40	40																																											120	$55	$6,600
2	Administration Support	TBD											40	40	20	20	20	20	20	20	20																																				220	$55	$12,100
3	Administration Support	TBD													20	20	10	10	10	10	10																																				90	$55	$4,950
4	Administration Support	TBD															10	10	10	10	10	40	40	40	40	40	20	20	10	10	10	10	10	10	10	10	10	10																			390	$55	$21,450
5	Administration Support	TBD																																																					$55	
F	**Administration Support**	**Jerry Martin**																																																						**$55**	
Prelim	Administration Support	Jerry Martin																																																						$55	
ODC	**Other Direct Costs**	**$**																																																				39,928		**$40,000**
	Sub-Total LTE Core Team		88	88	88	88	88	88	88	282	282	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	172	122	112	112	112	112	112	112	112	112	112	112																			**10,580**	**$129**	**$1,405,541**
F	**System Manager - LTE**	**TBD**	80	80	80	100	80	80	100	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	25	20	20	25	20	20	25	20	20	25	20	20																			**3,640**	**$160**	**$582,400**
Prelim	System Manager - LTE	Chuck Hnot																																																					60	$160	$9,600
Prelim	System Manager - LTE	TBD	80	80	80	100	80	80	100																																														600	$160	$96,000
1	System Manager - LTE	TBD								160	160	160																																												480	$160	$76,800
2	System Manager - LTE	TBD											160	160	80	80	20	20	20	20	20																																				580	$160	$92,800
3	System Manager - LTE	TBD													80	80	20	20	20	20	20																																				260	$160	$41,600
4	System Manager - LTE	TBD															120	120	120	120	120	160	160	160	160	160	25	20	20	25	20	20	25	20	20	25	20	20																			1,660	$160	$265,600
5	System Manager - LTE	TBD																																																				$160	

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																																
Phase I - System Design								Design - 3 mos																																																									
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																							
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																						
Phase IV - Telecommunications System Implementation															Implement - Test - Accept - 10 mos																																																					
Phase IV - Telecommunications System Training																					Training - 6 mos																																																	
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																														
Phase V - System Maintenance																																					Maint																											

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
F	System Manager - LMR	Chris Odenthal																																																															476	$160	$76,160
Prelim	System Manager - LMR	Ric Martin																																																															98	$160	$15,680
Prelim	System Manager - LMR	Chris Odenthal																																																															378	$160	$60,480
1	System Manager - LMR	Chris Odenthal																																																																$160	
2	System Manager - LMR	Chris Odenthal																																																																$160	
3	System Manager - LMR	Chris Odenthal																																																																$160	
4	System Manager - LMR	Chris Odenthal																																																																$160	
5	System Manager - LMR	Chris Odenthal																																																																$160	
F	System Design - Backbone Network	TBD								120	120	120	80	80	80	80	80	80	80	120	120	120	120	120	120	80																																								1,720	$155	$266,600
Prelim	System Design - Backbone Network	TBD																																																																$155	
1	System Design - Backbone Network	TBD								120	120	120																																																					360	$155	$55,800
2	System Design - Backbone Network	TBD											80	80	40	40	20	20	20	20	20																																												340	$155	$52,700
3	System Design - Backbone Network	TBD													40	40	20	20	20	20	20																																												180	$155	$27,900
4	System Design - Backbone Network	TBD															40	40	40	80	80	120	120	120	120	80																																								840	$155	$130,200
5	System Design - Backbone Network	TBD																																																																$155	
F	System Design - RF Network	TBD								120	120	120	80	80	80	80	80	80	80	120	120	120	120	120	120	80																																								1,720	$155	$266,600
Prelim	System Design - RF Network	Miscellaneous																																																																$155	
1	System Design - RF Network	TBD								120	120	120																																																					360	$155	$55,800
2	System Design - RF Network	TBD											80	80	40	40	20	20	20	20	20																																												340	$155	$52,700
3	System Design - RF Network	TBD													40	40	20	20	20	20	20																																												180	$155	$27,900
4	System Design - RF Network	TBD															40	40	40	80	80	120	120	120	120	80																																								840	$155	$130,200
5	System Design - RF Network	TBD																																																																$155	
F	Supply and Staging - Site Equipment	TBD												40	100	80	80	100	80	80	80	40	40	40	40	40																																								840	$160	$134,400
Prelim	Supply and Staging - Site Equipment	TBD																																																																$160	
1	Supply and Staging - Site Equipment	TBD																																																																$160	
2	Supply and Staging - Site Equipment	TBD																																																																$160	
3	Supply and Staging - Site Equipment	TBD												40	100	80	40	50	40	40	40																																												430	$160	$68,800
4	Supply and Staging - Site Equipment	TBD															40	50	40	40	40	40	40	40	40	40																																								410	$160	$65,600
5	Supply and Staging - Site Equipment	TBD																																																																$160	
A	Site Assessment	Alexander Van Elden																																																															220	$142	$31,240
Prelim	Site Assessment	Alexander Van Elden																																																															220	$142	$31,240
J	Constructibility/Design Review	TBD								100	100	100	100	100	100	100	100	100	100	100	100																																												1,200	$142	$170,400
Prelim	Constructibility/Design Review	TBD																																																																$142	
1	Constructibility/Design Review	TBD								100	100	100																																																					300	$142	$42,600
2	Constructibility/Design Review	TBD											100	100	100	100	100	100	100	100	100																																												900	$142	$127,800
3	Constructibility/Design Review	TBD																																																																$142	
4	Constructibility/Design Review	TBD																																																																$142	
5	Constructibility/Design Review	TBD																																																																$142	
F	Constructibility/Design Review	Terry Forehand																																																																$142	
Prelim	Constructibility/Design Review	Terry Forehand																																																																$142	
F	Team Leader - P.E. Technology	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$155	$204,600
Prelim	Team Leader - P.E. Technology	TBD																																																																$155	
1	Team Leader - P.E. Technology	TBD																																																																$155	
2	Team Leader - P.E. Technology	TBD																																																																$155	
3	Team Leader - P.E. Technology	TBD																																																																$155	
4	Team Leader - P.E. Technology	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$155	$204,600
5	Team Leader - P.E. Technology	TBD																																																																$155	
F	P.E. Technology - 1	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
Prelim	P.E. Technology - 1	Ramin Hafezi																																																																$150	
1	P.E. Technology - 1	TBD																																																																$150	
2	P.E. Technology - 1	TBD																																																																$150	
3	P.E. Technology - 1	TBD																																																																$150	
4	P.E. Technology - 1	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
5	P.E. Technology - 1	TBD																																																																$150	
F	P.E. Technology - 2	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
Prelim	P.E. Technology - 2	Tim Smoak																																																																$150	
1	P.E. Technology - 2	TBD																																																																$150	
2	P.E. Technology - 2	TBD																																																																$150	
3	P.E. Technology - 2	TBD																																																																$150	
4	P.E. Technology - 2	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
5	P.E. Technology - 2	TBD																																																																$150	
F	P.E. Technology - 3	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
Prelim	P.E. Technology - 3	Rajit Jhaver																																																																	$150	
1	P.E. Technology - 3	TBD																																																																$150	
2	P.E. Technology - 3	TBD																																																																$150	
3	P.E. Technology - 3	TBD																																																																$150	
4	P.E. Technology - 3	TBD														80	160	120	120	120	120	120	120	120	120	120																																								1,320	$150	$198,000
5	P.E. Technology - 3	TBD																																																																$150	

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																	
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																																
Phase I - System Design								Design - 3 mos																																																									
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																							
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																						
Phase IV - Telecommunications System Implementation															Implement - Test - Accept - 10 mos																																																							
Phase IV - Telecommunications System Training																					Training - 6 mos																																																	
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																																		
Phase V - System Maintenance																																					Maint																												

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
F	P.E. Technology - 4	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
Prelim	P.E. Technology - 4	David Brooks																																																																	$150	
1	P.E. Technology - 4	TBD																																																																	$150	
2	P.E. Technology - 4	TBD																																																																	$150	
3	P.E. Technology - 4	TBD																																																																	$150	
4	P.E. Technology - 4	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
5	P.E. Technology - 4	TBD																																																																	$150	
F	P.E. Technology - 5	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
Prelim	P.E. Technology - 5	Luis Camarillo																																																																	$150	
1	P.E. Technology - 5	TBD																																																																	$150	
2	P.E. Technology - 5	TBD																																																																	$150	
3	P.E. Technology - 5	TBD																																																																	$150	
4	P.E. Technology - 5	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
5	P.E. Technology - 5	TBD																																																																	$150	
F	P.E. Technology - 6	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
Prelim	P.E. Technology - 6	TBD																																																																	$150	
1	P.E. Technology - 6	TBD																																																																	$150	
2	P.E. Technology - 6	TBD																																																																	$150	
3	P.E. Technology - 6	TBD																																																																	$150	
4	P.E. Technology - 6	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
5	P.E. Technology - 6	TBD																																																																	$150	
F	P.E. Technology - 7	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
Prelim	P.E. Technology - 7	TBD																																																																	$150	
1	P.E. Technology - 7	TBD																																																																	$150	
2	P.E. Technology - 7	TBD																																																																	$150	
3	P.E. Technology - 7	TBD																																																																	$150	
4	P.E. Technology - 7	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
5	P.E. Technology - 7	TBD																																																																	$150	
F	P.E. Technology - 8	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
Prelim	P.E. Technology - 8	TBD																																																																	$150	
1	P.E. Technology - 8	TBD																																																																	$150	
2	P.E. Technology - 8	TBD																																																																	$150	
3	P.E. Technology - 8	TBD																																																																	$150	
4	P.E. Technology - 8	TBD														80	160	120	120	120	120	120	120	120	120	120																																									1,320	$150	$198,000
5	P.E. Technology - 8	TBD																																																																	$150	
J	Team Leader - Site/Civil	TBD								80	80	80	80	80	80	80	80	60	60	60	60	60	60																																													1,000	$155	$155,000
Prelim	Team Leader - Site/Civil	TBD																																																																	$155	
1	Team Leader - Site/Civil	TBD																																																																	$155	
2	Team Leader - Site/Civil	TBD								80	80	80	80	80	80	80	80	60	60	60	60	60	60																																													1,000	$155	$155,000
3	Team Leader - Site/Civil	TBD																																																																	$155	
4	Team Leader - Site/Civil	TBD																																																																	$155	
5	Team Leader - Site/Civil	TBD																																																																	$155	
C	P.E. Site/Civil - 1	TBD										80	160	160	160	60	60	60	60	60	60																																																	1,198	$150	$179,700
Prelim	P.E. Site/Civil - 1	Salim Sioufi																																																																278	$150	$41,700
1	P.E. Site/Civil - 1	TBD																																																																	$150	
2	P.E. Site/Civil - 1	TBD										80	160	160	160	60	60	60	60	60	60																																																	920	$150	$138,000
3	P.E. Site/Civil - 1	TBD																																																																	$150	
4	P.E. Site/Civil - 1	TBD																																																																	$150	
5	P.E. Site/Civil - 1	TBD																																																																	$150	
J	P.E. Site/Civil - 2	TBD										80	160	160	160	60	60	60	60	60	60																																																		920	$150	$138,000
Prelim	P.E. Site/Civil - 2	Peter Jambritis																																																																	$150	
1	P.E. Site/Civil - 2	TBD																																																																	$150	
2	P.E. Site/Civil - 2	TBD										80	160	160	160	60	60	60	60	60	60																																																		920	$150	$138,000
3	P.E. Site/Civil - 2	TBD																																																																	$150	
4	P.E. Site/Civil - 2	TBD																																																																	$150	
5	P.E. Site/Civil - 2	TBD																																																																	$150	
J	P.E. Site/Civil - 3	TBD										80	160	160	160	60	60	60	60	60	60																																																	920	$150	$138,000
Prelim	P.E. Site/Civil - 3	Kapiji Kamara																																																																	$150	
1	P.E. Site/Civil - 3	TBD																																																																	$150	
2	P.E. Site/Civil - 3	TBD										80	160	160	160	60	60	60	60	60	60																																																		920	$150	$138,000
3	P.E. Site/Civil - 3	TBD																																																																$150	
4	P.E. Site/Civil - 3	TBD																																																																	$150	
5	P.E. Site/Civil - 3	TBD																																																																	$150	
J	P.E. Site/Civil - 4	TBD										80	160	160	160	60	60	60	60	60	60																																																	920	$150	$138,000
Prelim	P.E. Site/Civil - 4	TBD																																																																	$150	
1	P.E. Site/Civil - 4	TBD																																																																	$150	
2	P.E. Site/Civil - 4	TBD										80	160	160	160	60	60	60	60	60	60																																																		920	$150	$138,000
3	P.E. Site/Civil - 4	TBD																																																																	$150	

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design									Design - 3 mos																																																							
Phase II - Site Construction and Site Modification												Site Construction - 9 mos																																																				
Phase III - Supply Telecommunication System Components														Purchase Equip - 7 mos																																																		
Phase IV - Telecommunications System Implementation																Implement - Test - Accept - 10 mos																																																
Phase IV - Telecommunications System Training																						Training - 6 mos																																										
Phase IV - Telecommunications System Warranty																										Warranty - 12 mos																																						
Phase V - System Maintenance																																						Maint																										

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
4	P.E. Site/Civil - 4	TBD																																																																	$150	
5	P.E. Site/Civil - 4	TBD																																																																	$150	
J	**P.E. Site/Civil - 5**	**TBD**									**80**	**160**	**160**	**160**	**60**	**60**	**60**	**60**	**60**	**60**																																													**920**	**$150**	**$138,000**
Prelim	P.E. Site/Civil - 5	TBD																																																																	$150	
1	P.E. Site/Civil - 5	TBD																																																																	$150	
2	P.E. Site/Civil - 5	TBD									80	160	160	160	60	60	60	60	60	60																																													920	$150	$138,000
3	P.E. Site/Civil - 5	TBD																																																																	$150	
4	P.E. Site/Civil - 5	TBD																																																																	$150	
5	P.E. Site/Civil - 5	TBD																																																																	$150	
J	**P.E. Site/Civil - 6**	**TBD**									**80**	**160**	**160**	**160**	**60**	**60**	**60**	**60**	**60**	**60**																																													**920**	**$150**	**$138,000**
Prelim	P.E. Site/Civil - 6	TBD																																																																	$150	
1	P.E. Site/Civil - 6	TBD																																																																	$150	
2	P.E. Site/Civil - 6	TBD									80	160	160	160	60	60	60	60	60	60																																													920	$150	$138,000
3	P.E. Site/Civil - 6	TBD																																																																	$150	
4	P.E. Site/Civil - 6	TBD																																																																	$150	
5	P.E. Site/Civil - 6	TBD																																																																	$150	
J	**P.E. Site/Civil - 7**	**TBD**									**80**	**160**	**160**	**160**	**60**	**60**	**60**	**60**	**60**	**60**																																													**920**	**$150**	**$138,000**
Prelim	P.E. Site/Civil - 7	TBD																																																																	$150	
1	P.E. Site/Civil - 7	TBD																																																																	$150	
2	P.E. Site/Civil - 7	TBD									80	160	160	160	60	60	60	60	60	60																																													920	$150	$138,000
3	P.E. Site/Civil - 7	TBD																																																																	$150	
4	P.E. Site/Civil - 7	TBD																																																																	$150	
5	P.E. Site/Civil - 7	TBD																																																																	$150	
J	**P.E. Site/Civil - 8**	**TBD**									**80**	**160**	**160**	**160**	**60**	**60**	**60**	**60**	**60**	**60**																																													**920**	**$150**	**$138,000**
Prelim	P.E. Site/Civil - 8	TBD																																																																	$150	
1	P.E. Site/Civil - 8	TBD																																																																	$150	
2	P.E. Site/Civil - 8	TBD									80	160	160	160	60	60	60	60	60	60																																													920	$150	$138,000
3	P.E. Site/Civil - 8	TBD																																																																	$150	
4	P.E. Site/Civil - 8	TBD																																																																	$150	
5	P.E. Site/Civil - 8	TBD																																																																	$150	
C	**Contract Compliance - Internal**	**Tom Bugbee**																																																																**16**	**$160**	**$2,480**
Prelim	Contract Compliance - Internal	Tom Bugbee																																																																16	$160	$2,480
J	**Contract Compliance - Internal**	**Todd Ritchie**	**-16**						**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**																												**59**	**$160**	**$9,360**
Prelim	Contract Compliance - Internal	Todd Ritchie	-15.5																																																															1	$160	$80
1	Contract Compliance - Internal	Todd Ritchie							2	2	2																																																						6	$160	$960
2	Contract Compliance - Internal	Todd Ritchie										2	2	1	1	1	1	1	1	1																																													11	$160	$1,760
3	Contract Compliance - Internal	Todd Ritchie												1	1																																																		2	$160	$320
4	Contract Compliance - Internal	Todd Ritchie														1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																												39	$160	$6,240
5	Contract Compliance - Internal	Todd Ritchie																																																																	$160	
J	**Community Outreach**	**TBD**		**340**	**480**	**480**	**420**	**380**	**360**	**360**	**240**	**240**	**80**	**80**	**80**																																																			**3,540**	**$195**	**$690,300**
Prelim	Community Outreach	TBD		340	480	480	420	380	360																																																									2,460	$195	$479,700
1	Community Outreach	TBD							360	240	240																																																						840	$195	$163,800
2	Community Outreach	TBD										80	80	80																																																			240	$195	$46,800
3	Community Outreach	TBD																																																																	$195	
4	Community Outreach	TBD																																																																	$195	
5	Community Outreach	TBD																																																																	$195	
A	**Scheduling**	**Devang Dedhia**							**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**																												**1,117**	**$142**	**$158,614**
Prelim	Scheduling	Devang Dedhia																																																																197	$142	$27,974
1	Scheduling	Devang Dedhia							40	40	40																																																						120	$142	$17,040
2	Scheduling	Devang Dedhia										40	40	20	20	20	20	20	20	20																																													220	$142	$31,240
3	Scheduling	Devang Dedhia												20	20	10	10	10	10	10																																													90	$142	$12,780
4	Scheduling	Devang Dedhia														10	10	10	10	10	40	40	40	40	40	20	20	20	20	20	20	20	20	20	20	20	20																												490	$142	$69,580
5	Scheduling	Devang Dedhia																																																																	$142	
J	**Estimating**	**Richter Schneider**							**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**																																								**242**	**$142**	**$34,364**
Prelim	Estimating	Richter Schneider																																																																72	$142	$10,224
1	Estimating	Richter Schneider							10	10	10																																																						30	$142	$4,260
2	Estimating	Richter Schneider										10	10	5	5	5	5	5	5	5																																													55	$142	$7,810
3	Estimating	Richter Schneider												5	5	3	3	3	3	3																																													25	$142	$3,550
4	Estimating	Richter Schneider														2	2	2	2	2	10	10	10	10	10																																								60	$142	$8,520
5	Estimating	Richter Schneider																																																																	$142	
J	**Estimator Support**	**N/A**																																																																**14**	**$130**	**$1,820**
Prelim	Estimator Support	Grace Lee																																																																14	$130	$1,820
J	**Environmental**	**TBD**							**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**																																													**960**	**$160**	**$153,600**
Prelim	Environmental	TBD																																																																	$160	
1	Environmental	TBD							80	80	80																																																						240	$160	$38,400
2	Environmental	TBD										80	80	80	80	80	80	80	80	80																																													720	$160	$115,200
3	Environmental	TBD																																																																	$160	
4	Environmental	TBD																																																																	$160	

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																																																																
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																																															
Phase I - System Design								Design - 3 mos																																																								
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																																																		
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																																																
Phase IV - Telecommunications System Implementation															Implement - Test - Accept - 10 mos																																																
Phase IV - Telecommunications System Training																					Training - 6 mos																																											
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos																																											
Phase V - System Maintenance																																					Maint																											

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
5	Environmental	TBD																																																																$160	
ODC	Other Direct Costs	$													50,000																							160,000																														$210,000
	Sub-Total LTE Non-Core		65	420	560	580	500	460	460	1072	952	1592	1992	2032	2092	1912	2632	2272	2252	2332	2332	1632	1632	1572	1572	1492	47	42	42	47	42	42	47	42	42	47	42	42																													36,281	$156	$5,877,638
	Total LTE		153	508	648	668	588	548	548	1354	1234	1844	2244	2284	2344	2164	2884	2524	2504	2584	2584	1884	1884	1824	1824	1744	219	164	154	159	154	154	159	154	154	159	154	154																													46,861	$150	$7,283,179

LA RICS - Long Term Evolution (LTE) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016	
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Receipt of Notice to Proceed - March 29, 2012																																				
Preliminary Phase - Mobilization, Start-up, and Program Support	Mobilization																																			
Phase I - System Design								Design - 3 mos																												
Phase II - Site Construction and Site Modification											Site Construction - 9 mos																									
Phase III - Supply Telecommunication System Components													Purchase Equip - 7 mos																							
Phase IV - Telecommunications System Implementation															Implement - Test - Accept - 10 mos																					
Phase IV - Telecommunications System Training																					Training - 6 mos															
Phase IV - Telecommunications System Warranty																									Warranty - 12 mos											
Phase V - System Maintenance																																				

		Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Long Term Evolution (LTE)	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Receipt of Notice to Proceed - March 29, 2012																												
Preliminary Phase - Mobilization, Start-up, and Program Support																												
Phase I - System Design																												
Phase II - Site Construction and Site Modification																												
Phase III - Supply Telecommunication System Components																												
Phase IV - Telecommunications System Implementation																												
Phase IV - Telecommunications System Training																												
Phase IV - Telecommunications System Warranty																												
Phase V - System Maintenance	Maint																											

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016	
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		88	88	88	88	88	88	88																													
1	Phase I - System Design									282	282	252																										
2	Phase II - Supply Telecommunication System Components												252	252	126	126	124	124	124	124	124																	
3	Phase III - Site Construct and Site Modification														126	126	63	63	63	63	63																	
4	Phase IV - Telecommunications System Implementation																65	65	65	65	65	252	252	252	252	252	172	122	112	112	112	112	112	112	112	112	112	112
5	Phase V - Telecommunications System Warranty																																					
ODC	Other Direct Costs																																					39,928
	Core Team by Phase		88	88	88	88	88	88	88	282	282	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	172	122	112	112	112	112	112	112	112	112	112	112
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		65	420	560	580	500	460	460																													
1	Phase I - System Design									992	872	872																										
2	Phase II - Supply Telecommunication System Components									80	80	720	1992	1992	1806	926	826	806	806	806	806	60	60															
3	Phase III - Site Construct and Site Modification													40	286	266	113	123	113	113	113																	
4	Phase IV - Telecommunications System Implementation															720	1693	1343	1333	1413	1413	1572	1572	1572	1572	1492	47	42	42	47	42	42	47	42	42	47	42	42
5	Phase V - Telecommunications System Warranty																																					
ODC	Other Direct Costs														50,000																							160,000
	Non-Core Team by Phase		65	420	560	580	500	460	460	1072	952	1592	1992	2032	2092	1912	2632	2272	2252	2332	2332	1632	1632	1572	1572	1492	47	42	42	47	42	42	47	42	42	47	42	42
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		153	508	648	668	588	548	548																													
1	Phase I - System Design									1274	1154	1124																										
2	Phase II - Supply Telecommunication System Components									80	80	720	2244	2244	1932	1052	950	930	930	930	930	60	60															
3	Phase III - Site Construct and Site Modification													40	412	392	176	186	176	176	176																	
4	Phase IV - Telecommunications System Implementation															720	1758	1408	1398	1478	1478	1824	1824	1824	1824	1744	219	164	154	159	154	154	159	154	154	159	154	154
5	Phase V - Telecommunications System Warranty																																					
ODC	Other Direct Costs														50,000																							199,928
	Total by Phase		153	508	648	668	588	548	548	1354	1234	1844	2244	2284	2344	2164	2884	2524	2504	2584	2584	1884	1884	1824	1824	1744	219	164	154	159	154	154	159	154	154	159	154	154
J	Jacobs		17	372	512	512	452	412	392	794	674	1204	1604	1604	1604	824	824	804	804	804	804	204	204	144	144	144	84	64	54	54	54	54	54	54	54	54	54	54
A	APSI									40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	20	20	20	20	20	20	20	20	20	20	20	20
C	Citadel		16	16	16	16	16	16	16	80	80	160	240	240	240	140	140	140	140	140	140	80	80	80	80	80	60	40	40	40	40	40	40	40	40	40	40	40
F	Federal		120	120	120	140	120	120	140	440	440	440	360	400	460	1160	1880	1540	1520	1600	1600	1560	1560	1560	1560	1480	55	40	40	45	40	40	45	40	40	45	40	40
O	Other																																					
ODC	Other Direct Costs														50,000																							199,928
	Total by Company		153	508	648	668	588	548	548	1354	1234	1844	2244	2284	2344	2164	2884	2524	2504	2584	2584	1884	1884	1824	1824	1744	219	164	154	159	154	154	159	154	154	159	154	154

			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																													4,822	$142	$686,151
1	Phase I - System Design																													816	$120	$98,130
2	Phase II - Supply Telecommunication System Components																													1,376	$116	$160,105
3	Phase III - Site Construct and Site Modification																													567	$117	$66,210
4	Phase IV - Telecommunications System Implementation																													2,999	$118	$354,945
5	Phase V - Telecommunications System Warranty																															
ODC	Other Direct Costs																															$40,000
	Core Team by Phase																													10,580	$129	$1,405,541
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																													4,393	$177	$776,978
1	Phase I - System Design																													2,736	$166	$455,460
2	Phase II - Supply Telecommunication System Components																													11,766	$152	$1,787,810
3	Phase III - Site Construct and Site Modification																													1,167	$157	$182,850
4	Phase IV - Telecommunications System Implementation																													16,219	$152	$2,464,540
5	Phase V - Telecommunications System Warranty																															
ODC	Other Direct Costs																															$210,000
	Non-Core Team by Phase																													36,281	$156	$5,877,638
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																													9,215	$159	$1,463,129
1	Phase I - System Design																													3,552	$156	$553,590
2	Phase II - Supply Telecommunication System Components																													13,142	$148	$1,947,915
3	Phase III - Site Construct and Site Modification																													1,734	$144	$249,060
4	Phase IV - Telecommunications System Implementation																													19,218	$147	$2,819,485
5	Phase V - Telecommunications System Warranty																															
ODC	Other Direct Costs																															$250,000
	Total by Phase																													46,861	$150	$7,283,179
J	Jacobs																													18,153	$149	$2,701,355
A	APSI																													1,337	$142	$189,854
C	Citadel																													4,507	$133	$600,108
F	Federal																													22,865	$155	$3,541,863
O	Other																															
ODC	Other Direct Costs																															$250,000
	Total by Company																													46,861	$150	$7,283,179

Long Term Evolution (LTE)	46,861	$155	$7,283,179
Land Mobil Radio (LMR)	141,765	$141	$20,034,406
Grand Total	188,626	$145	$27,317,585

LA RICS - Land Mobil Radio (LMR) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																		
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																														
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																							Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
J	Program Director	David Roberts	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1			231	$180	$41,490
Prelim	Program Director	David Roberts																																																															105	$180	$18,810
1	Program Director	David Roberts	4	4	4	4	4	4	4	2	2	2	2	2	2																																																		40	$180	$7,200
2	Program Director	David Roberts														2	2	2	2																																														8	$180	$1,440
3	Program Director	David Roberts																		2	2	2	2	2	2	2	2	2	2																																				20	$180	$3,600
4	Program Director	David Roberts																										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1			58	$180	$10,440
5	Program Director	David Roberts																																																																$180	
J	Program Manager	Skip Funk	144	144	144	144	144	144	144	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	130	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			10,030	$180	$1,805,400
Prelim	Program Manager	Skip Funk																																																															2,192	$180	$394,560
1	Program Manager	Skip Funk	144	144	144	144	144	144	144	120	120	120	120	120	120																																																		1,728	$180	$311,040
2	Program Manager	Skip Funk														120	120	120	120	60	60	60	60	60	60	60	65	70	50	70	70	70																																			1,295	$180	$233,100
3	Program Manager	Skip Funk																		60	60	60	60	60	60	60	65	70	40																																						595	$180	$107,100
4	Program Manager	Skip Funk																										50	70	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,220	$180	$759,600
5	Program Manager	Skip Funk																																																																$180	
F	Sr. Project Manager - RS Technology	Rick Polehonka	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	130	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			9,016	$165	$1,487,558
Prelim	Sr. Project Manager - RS Technology	Rick Polehonka																																																															1,346	$165	$222,008
1	Sr. Project Manager - RS Technology	Rick Polehonka	120	120	120	120	120	120	120	120	120	120	120	120	120																																																		1,560	$165	$257,400
2	Sr. Project Manager - RS Technology	Rick Polehonka														120	120	120	120	60	60	60	60	60	60	60	65	70	50	70	70	70																																			1,295	$165	$213,675
3	Sr. Project Manager - RS Technology	Rick Polehonka																		60	60	60	60	60	60	60	65	70	40																																						595	$165	$98,175
4	Sr. Project Manager - RS Technology	Rick Polehonka																										50	70	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,220	$165	$696,300
5	Sr. Project Manager - RS Technology	Rick Polehonka																																																																$165	
C	Sr. Project Manager - Site/Cvil	Mohamad Younes	144	144	144	144	144	144	144	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	130	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			9,702	$165	$1,600,748
Prelim	Sr. Project Manager - Site/Cvil	Mohamad Younes																																																															1,864	$165	$307,478
1	Sr. Project Manager - Site/Cvil	Mohamad Younes	144	144	144	144	144	144	144	120	120	120	120	120	120																																																		1,728	$165	$285,120
2	Sr. Project Manager - Site/Cvil	Mohamad Younes														120	120	120	120	60	60	60	60	60	60	60	65	70	50	70	70	70																																			1,295	$165	$213,675
3	Sr. Project Manager - Site/Cvil	Mohamad Younes																		60	60	60	60	60	60	60	65	70	40																																						595	$165	$98,175
4	Sr. Project Manager - Site/Cvil	Mohamad Younes																										50	70	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,220	$165	$696,300
5	Sr. Project Manager - Site/Cvil	Mohamad Younes																																																																$165	
J	Program Controls Manager	Marc Glasser	40	40	40	40	20	20	50	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															835	$165	$137,775
Prelim	Program Controls Manager	Marc Glasser																																																															155	$165	$25,575
1	Program Controls Manager	Marc Glasser	40	40	40	40	20	20	50	10	10	10	10	10	10																																																		310	$165	$51,150
2	Program Controls Manager	Marc Glasser														10	10	10	10	5	5	5	5	5	5	5	5	5	5	5	5	5																																			105	$165	$17,325
3	Program Controls Manager	Marc Glasser																		5	5	5	5	5	5	5	5	5	2																																						47	$165	$7,755
4	Program Controls Manager	Marc Glasser																										3	5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															218	$165	$35,970
5	Program Controls Manager	Marc Glasser																																																																$165	
C	Document Control	Vanessa Montes	160	160	160	160	160	160	160	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	130	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			9,323	$65	$605,995
Prelim	Document Control	Vanessa Montes																																																															1,373	$65	$89,245
1	Document Control	Vanessa Montes	160	160	160	160	160	160	160	120	120	120	120	120	120																																																		1,840	$65	$119,600
2	Document Control	Vanessa Montes														120	120	120	120	60	60	60	60	60	60	60	65	70	50	70	70	70																																			1,295	$65	$84,175
3	Document Control	Vanessa Montes																		60	60	60	60	60	60	60	65	70	40																																						595	$65	$38,675
4	Document Control	Vanessa Montes																										50	70	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,220	$65	$274,300
5	Document Control	Vanessa Montes																																																																$65	
J	Administration	Marina Nyugen	144	144	144	144	144	144	144	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	130	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			9,772	$55	$537,474
Prelim	Administration	Marina Nyugen																																																															1,934	$55	$106,384
1	Administration	Marina Nyugen	144	144	144	144	144	144	144	120	120	120	120	120	120																																																		1,728	$55	$95,040
2	Administration	Marina Nyugen														120	120	120	120	60	60	60	60	60	60	60	65	70	50	70	70	70																																			1,295	$55	$71,225
3	Administration	Marina Nyugen																		60	60	60	60	60	60	60	65	70	40																																						595	$55	$32,725
4	Administration	Marina Nyugen																										50	70	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,220	$55	$232,100
5	Administration	Marina Nyugen																																																																$55	
J	Administration Support	TBD	160	160	160	160	160	160	160	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	140	140	90	90	70	70																																			3,760	$55	$206,800
Prelim	Administration Support	TBD																																																																$55	
1	Administration Support	TBD	160	160	160	160	160	160	160	120	120	120	120	120	120																																																		1,840	$55	$101,200
2	Administration Support	TBD														120	120	120	120	60	60	60	60	60	60	60	70	70	50	90	70	70																																			1,320	$55	$72,600
3	Administration Support	TBD																		60	60	60	60	60	60	60	70	70	40																																						600	$55	$33,000
4	Administration Support	TBD																																																																$55	
5	Administration Support	TBD																																																																$55	
F	Administration Support	Jerry Martin																																																															197	$55	$10,835
Prelim	Administration Support	Jerry Martin																																																															197	$55	$10,835
ODC	Other Direct Costs	$																																																												9,552					$10,000
	Sub-Total LMR Core Team		916	916	916	916	896	896	926	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	802	852	802	802	782	782	712	712	712	712	712	712	812	812	812	812	812	812	812	812	812	812	812	812	812	812	801	801	401	401	501	201	201	251	201	201	251	201			52,865	$122	$6,444,074
F	System Manager - LTE	TBD																																																															184	$160	$29,440
Prelim	System Manager - LTE	Chuck Hnot																																																															184	$160	$29,440
Prelim	System Manager - LTE	TBD																																																																$160	
1	System Manager - LTE	TBD																																																																$160	
2	System Manager - LTE	TBD																																																																$160	
3	System Manager - LTE	TBD																																																																$160	
4	System Manager - LTE	TBD																																																																$160	
5	System Manager - LTE	TBD																																																																$160	
F	System Manager - LMR	Chris Odenthal	153	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			11,217	$160	$1,794,640
Prelim	System Manager - LMR	Ric Martin																																																															1,732	$160	$277,120
Prelim	System Manager - LMR	Chris Odenthal																																																															612	$160	$97,840

LA RICS - Land Mobil Radio (LMR) - Schedule and Fee

As of 24 Sep 13

Schedule - Land Mobil Radio (LMR)		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014		
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos		
Phase III - Supply Telecommunication System Components																
Phase IV - Telecommunications System Implementation & Warranty																
Phase V - System Maintenance																

Schedule - Land Mobil Radio (LMR)	Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																								
Phase I - System Design																								
Phase II - Site Construction and Site Modification																								
Phase III - Supply Telecommunication System Components		Purchase Equipment - 10 mos																						
Phase IV - Telecommunications System Implementation & Warranty											Implementation - Test - Training - Acceptance - 24 mos													
Phase V - System Maintenance																								

Schedule - Land Mobil Radio (LMR)	Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																								
Phase I - System Design																								
Phase II - Site Construction and Site Modification																								
Phase III - Supply Telecommunication System Components																								
Phase IV - Telecommunications System Implementation & Warranty												Warranty - 12 mos												
Phase V - System Maintenance																							Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	System Manager - LMR	Chris Odenthal	153	160	160	160	160	160	160	160	160	160	160	160	160			
2	System Manager - LMR	Chris Odenthal														160	160	160
3	System Manager - LMR	Chris Odenthal																
4	System Manager - LMR	Chris Odenthal																
5	System Manager - LMR	Chris Odenthal																
F	**System Design - Backbone Network**	**TBD**	127	160	160	160	160	160	160	40	40	40	80	80	80	80	60	60
Prelim	System Design - Backbone Network	TBD																
1	System Design - Backbone Network	TBD	127	160	160	160	160	160	160	40	40	40	80	80	80	80	60	60
2	System Design - Backbone Network	TBD																
3	System Design - Backbone Network	TBD																
4	System Design - Backbone Network	TBD																
5	System Design - Backbone Network	TBD																
F	**System Design - RF Network**	**TBD**	120	160	160	160	160	160	160	40	40	40	80	80	80	80	60	60
Prelim	System Design - RF Network	Miscellaneous																
1	System Design - RF Network	TBD	120	160	160	160	160	160	160	40	40	40	80	80	80	80	60	60
2	System Design - RF Network	TBD																
3	System Design - RF Network	TBD																
4	System Design - RF Network	TBD																
5	System Design - RF Network	TBD																
F	**Supply and Staging - Site Equipment**	**TBD**																
Prelim	Supply and Staging - Site Equipment	TBD																
1	Supply and Staging - Site Equipment	TBD																
2	Supply and Staging - Site Equipment	TBD																
3	Supply and Staging - Site Equipment	TBD																
4	Supply and Staging - Site Equipment	TBD																
5	Supply and Staging - Site Equipment	TBD																
A	**Site Assessment**	**Alexander Van Elden**																
Prelim	Site Assessment	Alexander Van Elden																
J	**Constructibility/Design Review**	**TBD**	160	160	160	160	160	160	160	60	60	60	60	60	60	60	60	60
Prelim	Constructibility/Design Review	TBD																
1	Constructibility/Design Review	TBD	160	160	160	160	160	160	160	60	60	60	60	60	60			
2	Constructibility/Design Review	TBD														60	60	60
3	Constructibility/Design Review	TBD																
4	Constructibility/Design Review	TBD																
5	Constructibility/Design Review	TBD																
F	**Constructibility/Design Review**	**Terry Forehand**																
Prelim	Constructibility/Design Review	Terry Forehand																
F	**Team Leader - P.E. Technology**	**TBD**																40
Prelim	Team Leader - P.E. Technology	TBD																
1	Team Leader - P.E. Technology	TBD																
2	Team Leader - P.E. Technology	TBD																40
3	Team Leader - P.E. Technology	TBD																
4	Team Leader - P.E. Technology	TBD																
5	Team Leader - P.E. Technology	TBD																
F	**P.E. Technology - 1**	**TBD**																40
Prelim	P.E. Technology - 1	Ramin Hafezi																
1	P.E. Technology - 1	TBD																
2	P.E. Technology - 1	TBD																40
3	P.E. Technology - 1	TBD																
4	P.E. Technology - 1	TBD																
5	P.E. Technology - 1	TBD																
F	**P.E. Technology - 2**	**TBD**																40
Prelim	P.E. Technology - 2	Tim Smoak																
1	P.E. Technology - 2	TBD																
2	P.E. Technology - 2	TBD																40
3	P.E. Technology - 2	TBD																
4	P.E. Technology - 2	TBD																
5	P.E. Technology - 2	TBD																
F	**P.E. Technology - 3**	**TBD**																40
Prelim	P.E. Technology - 3	Rajit Jhaver																
1	P.E. Technology - 3	TBD																
2	P.E. Technology - 3	TBD																40
3	P.E. Technology - 3	TBD																
4	P.E. Technology - 3	TBD																
5	P.E. Technology - 3	TBD																
F	**P.E. Technology - 4**	**TBD**																40
Prelim	P.E. Technology - 4	David Brooks																
1	P.E. Technology - 4	TBD																
2	P.E. Technology - 4	TBD																40
3	P.E. Technology - 4	TBD																
4	P.E. Technology - 4	TBD																

		Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016		
Phase	POSITION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	System Manager - LMR																								
2	System Manager - LMR	160	80	80	80	80	80	80	80	80	80	80	80	80	80										
3	System Manager - LMR		80	80	80	80	80	80	80	80	80	20													
4	System Manager - LMR											60	80	80	80	160	160	160	160	160	160	160	160	160	160
5	System Manager - LMR																								
F	**System Design - Backbone Network**	60									80	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	System Design - Backbone Network																								
1	System Design - Backbone Network	60																							
2	System Design - Backbone Network																								
3	System Design - Backbone Network																								
4	System Design - Backbone Network										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160
5	System Design - Backbone Network																								
F	**System Design - RF Network**	60									80	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Prelim	System Design - RF Network																								
1	System Design - RF Network	60																							
2	System Design - RF Network																								
3	System Design - RF Network																								
4	System Design - RF Network										80	160	160	160	160	160	160	160	160	160	160	160	160	160	160
5	System Design - RF Network																								
F	**Supply and Staging - Site Equipment**		80	80	80	80	80	80	80	80	80	80	50	40	40	50	40	40	50						
Prelim	Supply and Staging - Site Equipment																								
1	Supply and Staging - Site Equipment																								
2	Supply and Staging - Site Equipment																								
3	Supply and Staging - Site Equipment		80	80	80	80	80	80	80	80	80	80													
4	Supply and Staging - Site Equipment												50	40	40	50	40	40	50						
5	Supply and Staging - Site Equipment																								
A	**Site Assessment**																								
Prelim	Site Assessment																								
J	**Constructibility/Design Review**	60	60	60	160	160	160	160	160	160	160	160	160	80	80										
Prelim	Constructibility/Design Review																								
1	Constructibility/Design Review																								
2	Constructibility/Design Review	60	60	60	160	160	160	160	160	160	160	160	160	80	80										
3	Constructibility/Design Review																								
4	Constructibility/Design Review																								
5	Constructibility/Design Review																								
F	**Constructibility/Design Review**																								
Prelim	Constructibility/Design Review																								
F	**Team Leader - P.E. Technology**	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120	
Prelim	Team Leader - P.E. Technology																								
1	Team Leader - P.E. Technology																								
2	Team Leader - P.E. Technology	40	40	40	40	40	40	40	40	40	80														
3	Team Leader - P.E. Technology																								
4	Team Leader - P.E. Technology											160	160	160	160	160	160	160	160	160	160	160	160	120	
5	Team Leader - P.E. Technology																								
F	**P.E. Technology - 1**	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120	
Prelim	P.E. Technology - 1																								
1	P.E. Technology - 1																								
2	P.E. Technology - 1	40	40	40	40	40	40	40	40	40	80														
3	P.E. Technology - 1																								
4	P.E. Technology - 1											160	160	160	160	160	160	160	160	160	160	160	160	120	
5	P.E. Technology - 1																								
F	**P.E. Technology - 2**	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120	
Prelim	P.E. Technology - 2																								
1	P.E. Technology - 2																								
2	P.E. Technology - 2	40	40	40	40	40	40	40	40	40	80														
3	P.E. Technology - 2																								
4	P.E. Technology - 2											160	160	160	160	160	160	160	160	160	160	160	160	120	
5	P.E. Technology - 2																								
F	**P.E. Technology - 3**	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120	
Prelim	P.E. Technology - 3																								
1	P.E. Technology - 3																								
2	P.E. Technology - 3	40	40	40	40	40	40	40	40	40	80														
3	P.E. Technology - 3																								
4	P.E. Technology - 3											160	160	160	160	160	160	160	160	160	160	160	160	120	
5	P.E. Technology - 3																								
F	**P.E. Technology - 4**	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120	
Prelim	P.E. Technology - 4																								
1	P.E. Technology - 4																								
2	P.E. Technology - 4	40	40	40	40	40	40	40	40	40	80														
3	P.E. Technology - 4																								
4	P.E. Technology - 4											160	160	160	160	160	160	160	160	160	160	160	160	120	

		Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
Phase	POSITION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
1	System Manager - LMR																									2,073	$160	$331,680
2	System Manager - LMR																									1,680	$160	$268,800
3	System Manager - LMR																									740	$160	$118,400
4	System Manager - LMR	160	160	160	160	160	160	160	160	160	160	160	160	80	80	100	40	40	50	40	40	50	40			4,380	$160	$700,800
5	System Manager - LMR																										$160	
F	**System Design - Backbone Network**	160	160	160	160	160	160	160	160	160	160	80														5,707	$155	$884,585
Prelim	System Design - Backbone Network																										$155	
1	System Design - Backbone Network																									1,707	$155	$264,585
2	System Design - Backbone Network																										$155	
3	System Design - Backbone Network																										$155	
4	System Design - Backbone Network	160	160	160	160	160	160	160	160	160	160	80														4,000	$155	$620,000
5	System Design - Backbone Network																										$155	
F	**System Design - RF Network**	160	160	160	160	160	160	160	160	160	160	80														7,078	$155	$1,097,090
Prelim	System Design - RF Network																									1,378	$155	$213,590
1	System Design - RF Network																									1,700	$155	$263,500
2	System Design - RF Network																										$155	
3	System Design - RF Network																										$155	
4	System Design - RF Network	160	160	160	160	160	160	160	160	160	160	80														4,000	$155	$620,000
5	System Design - RF Network																										$155	
F	**Supply and Staging - Site Equipment**																									1,110	$160	$177,600
Prelim	Supply and Staging - Site Equipment																										$160	
1	Supply and Staging - Site Equipment																										$160	
2	Supply and Staging - Site Equipment																										$160	
3	Supply and Staging - Site Equipment																									800	$160	$128,000
4	Supply and Staging - Site Equipment																									310	$160	$49,600
5	Supply and Staging - Site Equipment																										$160	
A	**Site Assessment**																									402	$142	$57,084
Prelim	Site Assessment																									402	$142	$57,084
J	**Constructibility/Design Review**																									3,440	$142	$488,480
Prelim	Constructibility/Design Review																										$142	
1	Constructibility/Design Review																									1,480	$142	$210,160
2	Constructibility/Design Review																									1,960	$142	$278,320
3	Constructibility/Design Review																										$142	
4	Constructibility/Design Review																										$142	
5	Constructibility/Design Review																										$142	
F	**Constructibility/Design Review**																									22	$142	$3,053
Prelim	Constructibility/Design Review																									22	$142	$3,053
F	**Team Leader - P.E. Technology**																									2,520	$155	$390,600
Prelim	Team Leader - P.E. Technology																										$155	
1	Team Leader - P.E. Technology																										$155	
2	Team Leader - P.E. Technology																									480	$155	$74,400
3	Team Leader - P.E. Technology																										$155	
4	Team Leader - P.E. Technology																									2,040	$155	$316,200
5	Team Leader - P.E. Technology																										$155	
F	**P.E. Technology - 1**																									3,048	$150	$457,200
Prelim	P.E. Technology - 1																									528	$150	$79,200
1	P.E. Technology - 1																										$150	
2	P.E. Technology - 1																									480	$150	$72,000
3	P.E. Technology - 1																										$150	
4	P.E. Technology - 1																									2,040	$150	$306,000
5	P.E. Technology - 1																										$150	
F	**P.E. Technology - 2**																									2,816	$150	$422,400
Prelim	P.E. Technology - 2																									296	$150	$44,400
1	P.E. Technology - 2																										$150	
2	P.E. Technology - 2																									480	$150	$72,000
3	P.E. Technology - 2																										$150	
4	P.E. Technology - 2																									2,040	$150	$306,000
5	P.E. Technology - 2																										$150	
F	**P.E. Technology - 3**																									2,651	$150	$397,650
Prelim	P.E. Technology - 3																									131	$150	$19,650
1	P.E. Technology - 3																										$150	
2	P.E. Technology - 3																									480	$150	$72,000
3	P.E. Technology - 3																										$150	
4	P.E. Technology - 3																									2,040	$150	$306,000
5	P.E. Technology - 3																										$150	
F	**P.E. Technology - 4**																									2,630	$150	$394,500
Prelim	P.E. Technology - 4																									110	$150	$16,500
1	P.E. Technology - 4																										$150	
2	P.E. Technology - 4																									480	$150	$72,000
3	P.E. Technology - 4																										$150	
4	P.E. Technology - 4																									2,040	$150	$306,000

LA RICS - Land Mobil Radio (LMR) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																																																																	
Phase I - System Design	System Design - 12 mos													Ph1 extend due to CEQA/NEPA																																																			
Phase II - Site Construction and Site Modification														Site Construction - 18 mos																																																		
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos																																														
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos																								Warranty - 12 mos													
Phase V - System Maintenance																																																															Maint	

				Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
Phase	POSITION	NAME	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
5	P.E. Technology - 4	TBD																																																																		$150	
F	**P.E. Technology - 5**	**TBD**															40	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																									2,616	$150	$392,400
Prelim	P.E. Technology - 5	Luis Camarillo																																																																		96	$150	$14,400
1	P.E. Technology - 5	TBD																																																																		$150	
2	P.E. Technology - 5	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 5	TBD																																																																		$150	
4	P.E. Technology - 5	TBD																												160	160	160	160	160	160	160	160	160	160	160	160	120																									2,040	$150	$306,000
5	P.E. Technology - 5	TBD																																																																		$150	
F	**P.E. Technology - 6**	**TBD**															40	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																									2,520	$150	$378,000
Prelim	P.E. Technology - 6	TBD																																																																		$150	
1	P.E. Technology - 6	TBD																																																																		$150	
2	P.E. Technology - 6	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 6	TBD																																																																		$150	
4	P.E. Technology - 6	TBD																												160	160	160	160	160	160	160	160	160	160	160	160	120																									2,040	$150	$306,000
5	P.E. Technology - 6	TBD																																																																		$150	
F	**P.E. Technology - 7**	**TBD**															40	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																									2,520	$150	$378,000
Prelim	P.E. Technology - 7	TBD																																																																		$150	
1	P.E. Technology - 7	TBD																																																																		$150	
2	P.E. Technology - 7	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 7	TBD																																																																		$150	
4	P.E. Technology - 7	TBD																												160	160	160	160	160	160	160	160	160	160	160	160	120																									2,040	$150	$306,000
5	P.E. Technology - 7	TBD																																																																		$150	
F	**P.E. Technology - 8**	**TBD**															40	40	40	40	40	40	40	40	40	40	80	160	160	160	160	160	160	160	160	160	160	160	160	120																									2,520	$150	$378,000
Prelim	P.E. Technology - 8	TBD																																																																		$150	
1	P.E. Technology - 8	TBD																																																																		$150	
2	P.E. Technology - 8	TBD															40	40	40	40	40	40	40	40	40	40	80																																						480	$150	$72,000
3	P.E. Technology - 8	TBD																																																																		$150	
4	P.E. Technology - 8	TBD																												160	160	160	160	160	160	160	160	160	160	160	160	120																									2,040	$150	$306,000
5	P.E. Technology - 8	TBD																																																																		$150	
J	**Team Leader - Site/Civil**	**TBD**		80	80	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100	100	100	160	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	40																										3,680	$155	$570,400
Prelim	Team Leader - Site/Civil	TBD																																																																		$155	
1	Team Leader - Site/Civil	TBD		80	80	80	80	80	80	80	80	80	80	80	80																																																			960	$155	$148,800
2	Team Leader - Site/Civil	TBD													80	80	100	100	100	100	100	100	160	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	40																										2,720	$155	$421,600
3	Team Leader - Site/Civil	TBD																																																																		$155	
4	Team Leader - Site/Civil	TBD																																																																		$155	
5	Team Leader - Site/Civil	TBD																																																																		$155	
C	**P.E. Site/Civil - 1**	**TBD**													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,914	$150	$437,100
Prelim	P.E. Site/Civil - 1	Salim Sioufi																																																																		634	$150	$95,100
1	P.E. Site/Civil - 1	TBD																																																																		$150	
2	P.E. Site/Civil - 1	TBD													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
3	P.E. Site/Civil - 1	TBD																																																																		$150	
4	P.E. Site/Civil - 1	TBD																																																																		$150	
5	P.E. Site/Civil - 1	TBD																																																																		$150	
J	**P.E. Site/Civil - 2**	**TBD**													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,798	$150	$419,700
Prelim	P.E. Site/Civil - 2	Peter Jambritis																																																																		518	$150	$77,700
1	P.E. Site/Civil - 2	TBD																																																																		$150	
2	P.E. Site/Civil - 2	TBD													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
3	P.E. Site/Civil - 2	TBD																																																																		$150	
4	P.E. Site/Civil - 2	TBD																																																																		$150	
5	P.E. Site/Civil - 2	TBD																																																																		$150	
J	**P.E. Site/Civil - 3**	**TBD**													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,611	$150	$391,650
Prelim	P.E. Site/Civil - 3	Kapiji Kamara																																																																		331	$150	$49,650
1	P.E. Site/Civil - 3	TBD																																																																		$150	
2	P.E. Site/Civil - 3	TBD													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
3	P.E. Site/Civil - 3	TBD																																																																		$150	
4	P.E. Site/Civil - 3	TBD																																																																		$150	
5	P.E. Site/Civil - 3	TBD																																																																		$150	
J	**P.E. Site/Civil - 4**	**TBD**													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
Prelim	P.E. Site/Civil - 4	TBD																																																																		$150	
1	P.E. Site/Civil - 4	TBD																																																																		$150	
2	P.E. Site/Civil - 4	TBD													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
3	P.E. Site/Civil - 4	TBD																																																																		$150	
4	P.E. Site/Civil - 4	TBD																																																																		$150	
5	P.E. Site/Civil - 4	TBD																																																																		$150	
J	**P.E. Site/Civil - 5**	**TBD**													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
Prelim	P.E. Site/Civil - 5	TBD																																																																		$150	
1	P.E. Site/Civil - 5	TBD																																																																		$150	
2	P.E. Site/Civil - 5	TBD													100	100	100	100	100	100	160	160	160	160	160	160	160	160	160	160	80																																		2,280	$150	$342,000
3	P.E. Site/Civil - 5	TBD																																																																		$150	
4	P.E. Site/Civil - 5	TBD																																																																		$150	
5	P.E. Site/Civil - 5	TBD																																																																		$150	

LA RICS - Land Mobil Radio (LMR) - Schedule and Fee

As of 24 Sep 13

		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015		
Schedule - Land Mobil Radio (LMR)	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																												
Phase I - System Design	System Design - 12 mos												Ph1 extend due to CEQA/NEPA															
Phase II - Site Construction and Site Modification														Site Construction - 18 mos														
Phase III - Supply Telecommunication System Components																		Purchase Equipment - 10 mos										
Phase IV - Telecommunications System Implementation & Warranty																											Implementation - Test - Training - Acceptance - 24 mos	
Phase V - System Maintenance																												

	Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018		
Schedule - Land Mobil Radio (LMR)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	FEB	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Preliminary Phase - Mobilization, Start-up, and Program Support																																				
Phase I - System Design																																				
Phase II - Site Construction and Site Modification																																				
Phase III - Supply Telecommunication System Components																																				
Phase IV - Telecommunications System Implementation & Warranty																							Warranty - 12 mos													
Phase V - System Maintenance																																			Maint	

Phase	POSITION	NAME		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014			Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015		
			SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
J	P.E. Site/Civil - 6	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
Prelim	P.E. Site/Civil - 6	TBD																												
1	P.E. Site/Civil - 6	TBD																												
2	P.E. Site/Civil - 6	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
3	P.E. Site/Civil - 6	TBD																												
4	P.E. Site/Civil - 6	TBD																												
5	P.E. Site/Civil - 6	TBD																												
J	P.E. Site/Civil - 7	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
Prelim	P.E. Site/Civil - 7	TBD																												
1	P.E. Site/Civil - 7	TBD																												
2	P.E. Site/Civil - 7	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
3	P.E. Site/Civil - 7	TBD																												
4	P.E. Site/Civil - 7	TBD																												
5	P.E. Site/Civil - 7	TBD																												
J	P.E. Site/Civil - 8	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
Prelim	P.E. Site/Civil - 8	TBD																												
1	P.E. Site/Civil - 8	TBD																												
2	P.E. Site/Civil - 8	TBD														100	100	100	100	100	100	160	160	160	160	160	160	160	160	160
3	P.E. Site/Civil - 8	TBD																												
4	P.E. Site/Civil - 8	TBD																												
5	P.E. Site/Civil - 8	TBD																												
C	Contract Compliance - Internal	Tom Bugbee																												
Prelim	Contract Compliance - Internal	Tom Bugbee																												
J	Contract Compliance - Internal	Todd Ritchie	-12	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Prelim	Contract Compliance - Internal	Todd Ritchie	-15.5																											
1	Contract Compliance - Internal	Todd Ritchie	4	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1											
2	Contract Compliance - Internal	Todd Ritchie														1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	Contract Compliance - Internal	Todd Ritchie																		1	1	1	1	1	1	1	1	1	1	
4	Contract Compliance - Internal	Todd Ritchie																												1
5	Contract Compliance - Internal	Todd Ritchie																												
J	Community Outreach	TBD		80	160	160	160	160	160	160	160	120	80	80	80															
Prelim	Community Outreach	TBD																												
1	Community Outreach	TBD		80	160	160	160	160	160	160	160	120	80	80	80															
2	Community Outreach	TBD																												
3	Community Outreach	TBD																												
4	Community Outreach	TBD																												
5	Community Outreach	TBD																												
A	Scheduling	Devang Dedhia	160	160	160	160	160	160	160	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	140	140	140	140
Prelim	Scheduling	Devang Dedhia																												
1	Scheduling	Devang Dedhia	160	160	160	160	160	160	160	120	120	120	120	120	120															
2	Scheduling	Devang Dedhia														120	120	120	120	60	60	60	60	60	60	60	70	70	70	70
3	Scheduling	Devang Dedhia																		60	60	60	60	60	60	60	70	70	40	
4	Scheduling	Devang Dedhia																											30	70
5	Scheduling	Devang Dedhia																												
J	Estimating	Richter Schneider	20	20	20	20	20	20	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Prelim	Estimating	Richter Schneider																												
1	Estimating	Richter Schneider	20	20	20	20	20	20	20	10	10	10	10	10	10															
2	Estimating	Richter Schneider														10	10	10	10	5	5	5	5	5	5	5	5	5	5	5
3	Estimating	Richter Schneider																		5	5	5	5	5	5	5	5	5	2	
4	Estimating	Richter Schneider																											3	5
5	Estimating	Richter Schneider																												
J	Estimator Support	N/A																												
Prelim	Estimator Support	Grace Lee																												
J	Environmental	TBD	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	80	80	40	40	20	20	25	20	20	25	20	20	25
Prelim	Environmental	TBD																												
1	Environmental	TBD	160	160	160	160	160	160	160	80	80	80	80	80	80	40	40	40	40											
2	Environmental	TBD														40	40	40	40	40	40	20	20	25	20	20	25	20	20	25
3	Environmental	TBD																												
4	Environmental	TBD																												
5	Environmental	TBD																												
ODC	Other Direct Costs	$																												
	Sub-Total LMR Non-Core		889	1144	1224	1224	1224	1224	1224	752	752	712	752	752	752	1472	1432	1812	1812	1732	1732	2292	2292	2357	2352	2352	2377	2892	3772	3747
	Total LMR		1805	2060	2140	2140	2120	2120	2150	1484	1484	1444	1484	1484	1484	2204	2164	2544	2544	2464	2464	3024	3024	3089	3084	3084	3179	3744	4574	4549

Phase	POSITION	NAME	Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016			Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			TOTALS		
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
J	P.E. Site/Civil - 6	TBD	160	80																																			2,280	$150	$342,000
Prelim	P.E. Site/Civil - 6	TBD																																						$150	
1	P.E. Site/Civil - 6	TBD																																						$150	
2	P.E. Site/Civil - 6	TBD	160	80																																			2,280	$150	$342,000
3	P.E. Site/Civil - 6	TBD																																						$150	
4	P.E. Site/Civil - 6	TBD																																						$150	
5	P.E. Site/Civil - 6	TBD																																						$150	
J	P.E. Site/Civil - 7	TBD	160	80																																			2,280	$150	$342,000
Prelim	P.E. Site/Civil - 7	TBD																																						$150	
1	P.E. Site/Civil - 7	TBD																																						$150	
2	P.E. Site/Civil - 7	TBD	160	80																																			2,280	$150	$342,000
3	P.E. Site/Civil - 7	TBD																																						$150	
4	P.E. Site/Civil - 7	TBD																																						$150	
5	P.E. Site/Civil - 7	TBD																																						$150	
J	P.E. Site/Civil - 8	TBD	160	80																																			2,280	$150	$342,000
Prelim	P.E. Site/Civil - 8	TBD																																						$150	
1	P.E. Site/Civil - 8	TBD																																						$150	
2	P.E. Site/Civil - 8	TBD	160	80																																			2,280	$150	$342,000
3	P.E. Site/Civil - 8	TBD																																						$150	
4	P.E. Site/Civil - 8	TBD																																						$150	
5	P.E. Site/Civil - 8	TBD																																						$150	
C	Contract Compliance - Internal	Tom Bugbee																																					16	$160	$2,480
Prelim	Contract Compliance - Internal	Tom Bugbee																																					16	$160	$2,480
J	Contract Compliance - Internal	Todd Ritchie	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			167	$160	$26,640
Prelim	Contract Compliance - Internal	Todd Ritchie																																					29	$160	$4,560
1	Contract Compliance - Internal	Todd Ritchie																																					44	$160	$7,040
2	Contract Compliance - Internal	Todd Ritchie	1	1																																			17	$160	$2,720
3	Contract Compliance - Internal	Todd Ritchie																																					10	$160	$1,600
4	Contract Compliance - Internal	Todd Ritchie	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			67	$160	$10,720
5	Contract Compliance - Internal	Todd Ritchie																																						$160	
J	Community Outreach	TBD																																					1,560	$195	$304,200
Prelim	Community Outreach	TBD																																						$195	
1	Community Outreach	TBD																																					1,560	$195	$304,200
2	Community Outreach	TBD																																						$195	
3	Community Outreach	TBD																																						$195	
4	Community Outreach	TBD																																						$195	
5	Community Outreach	TBD																																						$195	
A	Scheduling	Devang Dedhia	140	140	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			7,885	$142	$1,119,670
Prelim	Scheduling	Devang Dedhia																																					285	$142	$40,470
1	Scheduling	Devang Dedhia																																					1,840	$142	$261,280
2	Scheduling	Devang Dedhia	70	70																																			1,320	$142	$187,440
3	Scheduling	Devang Dedhia																																					600	$142	$85,200
4	Scheduling	Devang Dedhia	70	70	140	140	140	140	140	140	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			3,840	$142	$545,280
5	Scheduling	Devang Dedhia																																						$142	
J	Estimating	Richter Schneider	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															635	$142	$90,170
Prelim	Estimating	Richter Schneider																																					65	$142	$9,230
1	Estimating	Richter Schneider																																					200	$142	$28,400
2	Estimating	Richter Schneider	5	5																																			105	$142	$14,910
3	Estimating	Richter Schneider																																					47	$142	$6,674
4	Estimating	Richter Schneider	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															218	$142	$30,956
5	Estimating	Richter Schneider																																						$142	
J	Estimator Support	N/A																																						$130	
Prelim	Estimator Support	Grace Lee																																						$130	
J	Environmental	TBD	20	20																																			2,235	$160	$357,600
Prelim	Environmental	TBD																																						$160	
1	Environmental	TBD																																					1,760	$160	$281,600
2	Environmental	TBD	20	20																																			475	$160	$76,000
3	Environmental	TBD																																						$160	
4	Environmental	TBD																																						$160	
5	Environmental	TBD																																						$160	
ODC	Other Direct Costs	$																																		40,000					$40,000
	Sub-Total LMR Non-Core		3652	2932	2202	2192	2192	2202	2152	2152	2172	2132	1732	652	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			88,900	$152	$13,590,332
	Total LMR		4434	3714	2914	2904	2904	2914	2864	2864	2984	2944	2544	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			141,765	$141	$20,034,406

LA RICS - Land Mobil Radio (LMR) - Schedule and Fee

As of 24 Sep 13

Schedule - Land Mobil Radio (LMR)

Schedule - Land Mobil Radio (LMR)	Schedule (SEP 2013 – DEC 2018)
Preliminary Phase - Mobilization, Start-up, and Program Support	
Phase I - System Design	System Design - 12 mos; Ph1 extend due to CEQA/NEPA
Phase II - Site Construction and Site Modification	Site Construction - 18 mos
Phase III - Supply Telecommunication System Components	Purchase Equipment - 10 mos
Phase IV - Telecommunications System Implementation & Warranty	Implementation - Test - Training - Acceptance - 24 mos; Warranty - 12 mos
Phase V - System Maintenance	Maint

Phase	POSITION	NAME		Q4 - 2013			Q1 - 2014			Q2 2014			Q3 - 2014			Q4 - 2014		
			SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																	
1	Phase I - System Design		916	916	916	916	896	896	926	732	732	732	732	732	732			
2	Phase II - Supply Telecommunication System Components															732	732	732
3	Phase III - Site Construct and Site Modification																	
4	Phase IV - Telecommunications System Implementation																	
5	Phase V - Telecommunications System Warranty																	
ODC	Other Direct Costs																	
	Core Team by Phase		916	916	916	916	896	896	926	732	732	732	732	732	732	732	732	732
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		-16															
1	Phase I - System Design		904	1144	1224	1224	1224	1224	1224	752	752	712	752	752	752	201	161	161
2	Phase II - Supply Telecommunication System Components															1271	1271	1651
3	Phase III - Site Construct and Site Modification																	
4	Phase IV - Telecommunications System Implementation																	
5	Phase V - Telecommunications System Warranty																	
ODC	Other Direct Costs																	
	Non-Core Team by Phase		889	1144	1224	1224	1224	1224	1224	752	752	712	752	752	752	1472	1432	1812
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up		-16															
1	Phase I - System Design		1820	2060	2140	2140	2120	2120	2150	1484	1484	1444	1484	1484	1484	201	161	161
2	Phase II - Supply Telecommunication System Components															2003	2003	2383
3	Phase III - Site Construct and Site Modification																	
4	Phase IV - Telecommunications System Implementation																	
5	Phase V - Telecommunications System Warranty																	
ODC	Other Direct Costs																	
	Total by Phase		1805	2060	2140	2140	2120	2120	2150	1484	1484	1444	1484	1484	1484	2204	2164	2544
J	Jacobs		821	996	1076	1076	1056	1056	1086	764	764	724	684	684	684	1304	1304	1324
A	APSI		160	160	160	160	160	160	160	120	120	120	120	120	120	120	120	120
C	Citadel		304	304	304	304	304	304	304	240	240	240	240	240	240	340	340	340
F	Federal		520	600	600	600	600	600	600	360	360	360	440	440	440	440	400	760
O	Other																	
ODC	Other Direct Costs																	
	Total by Company		1805	2060	2140	2140	2120	2120	2150	1484	1484	1444	1484	1484	1484	2204	2164	2544

Phase	POSITION	Q1 - 2015			Q2 - 2015			Q3 - 2015			Q4 -2015			Q1 - 2016			Q2 - 2016			Q3 - 2016			Q4 -2016		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																								
1	Phase I - System Design																								
2	Phase II - Supply Telecommunication System Components	732	365	365	365	365	365	365	365	400	425	305	445	425	425										
3	Phase III - Site Construct and Site Modification		367	367	367	367	367	367	367	402	427	244													
4	Phase IV - Telecommunications System Implementation											253	357	357	357	712	712	712	712	712	712	812	812	812	812
5	Phase V - Telecommunications System Warranty																								
ODC	Other Direct Costs																								
	Core Team by Phase	732	732	732	732	732	732	732	732	802	852	802	802	782	782	712	712	712	712	712	712	812	812	812	812
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																								
1	Phase I - System Design	161																							
2	Phase II - Supply Telecommunication System Components	1651	1506	1506	2066	2066	2131	2126	2126	2141	2496	1776	1781	1,696	976	80	80	80	80	80	80	80	40		
3	Phase III - Site Construct and Site Modification		226	226	226	226	226	226	226	236	236	143													
4	Phase IV - Telecommunications System Implementation										160	1853	1966	1,956	1,956	2,122	2,112	2,112	2,122	2,072	2,072	2,092	2,092	1,732	652
5	Phase V - Telecommunications System Warranty																								
ODC	Other Direct Costs																								
	Non-Core Team by Phase	1812	1732	1732	2292	2292	2357	2352	2352	2377	2892	3772	3747	3652	2932	2202	2192	2192	2202	2152	2152	2172	2132	1732	652
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																								
1	Phase I - System Design	161																							
2	Phase II - Supply Telecommunication System Components	2383	1871	1871	2431	2431	2496	2491	2491	2541	2921	2081	2226	2,121	1,401	80	80	80	80	80	80	80	40		
3	Phase III - Site Construct and Site Modification		593	593	593	593	593	593	593	638	663	387													
4	Phase IV - Telecommunications System Implementation										160	2106	2323	2,313	2,313	2,834	2,824	2,824	2,834	2,784	2,784	2,904	2,904	2,544	1,464
5	Phase V - Telecommunications System Warranty																								
ODC	Other Direct Costs																								
	Total by Phase	2544	2464	2464	3024	3024	3089	3084	3084	3179	3744	4574	4549	4434	3714	2914	2904	2904	2914	2864	2864	2984	2944	2544	1464
J	Jacobs	1324	1284	1284	1784	1784	1849	1844	1844	1889	1904	1854	1859	1,754	1,114	384	384	384	384	384	384	424	384	344	344
A	APSI	120	120	120	120	120	120	120	120	140	140	140	140	140	140	140	140	140	140	140	140	160	160	160	160
C	Citadel	340	340	340	400	400	400	400	400	420	440	440	440	440	360	280	280	280	280	280	280	320	320	320	320
F	Federal	760	720	720	720	720	720	720	720	730	1260	2140	2110	2,100	2,100	2,110	2,100	2,100	2,110	2,060	2,060	2,080	2,080	1,720	640
O	Other																								
ODC	Other Direct Costs																								
	Total by Company	2544	2464	2464	3024	3024	3089	3084	3084	3179	3744	4574	4549	4434	3714	2914	2904	2904	2914	2864	2864	2984	2944	2544	1464

Phase	POSITION	Q1 - 2017			Q2 - 2017			Q3 - 2017			Q4 - 2017			Q1 - 2018			Q2 - 2018			Q3 - 2018			Q4 - 2018			T O T A L S		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Hours	Rates	Fee
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																									9,165	$128	$1,174,894
1	Phase I - System Design																									10,774	$114	$1,227,750
2	Phase II - Supply Telecommunication System Components																									7,908	$115	$907,215
3	Phase III - Site Construct and Site Modification																									3,642	$115	$419,205
4	Phase IV - Telecommunications System Implementation	812	812	812	812	812	812	812	812	812	812	801	801	401	401	501	201	201	251	201	201	251	201			21,376	$127	$2,705,010
5	Phase V - Telecommunications System Warranty																											
ODC	Other Direct Costs																						9,552					$10,000
	Core Team by Phase	812	812	812	812	812	812	812	812	812	812	801	801	401	401	501	201	201	251	201	201	251	201			52,865	$122	$6,444,074
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																									7,367	$154	$1,131,467
1	Phase I - System Design																									13,324	$158	$2,101,245
2	Phase II - Supply Telecommunication System Components																									30,837	$150	$4,636,190
3	Phase III - Site Construct and Site Modification																									2,197	$155	$339,874
4	Phase IV - Telecommunications System Implementation	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			35,175	$152	$5,341,556
5	Phase V - Telecommunications System Warranty																											
ODC	Other Direct Costs																						40,000					$40,000
	Non-Core Team by Phase	652	652	652	652	652	652	652	652	652	652	362	212	122	122	152	82	82	102	82	82	102	82			88,900	$152	$13,590,332
Prelim	Preliminary Phase - Mobilization, Negotiation and Start-up																									16,532	$140	$2,306,361
1	Phase I - System Design																									24,098	$138	$3,328,995
2	Phase II - Supply Telecommunication System Components																									38,745	$143	$5,543,405
3	Phase III - Site Construct and Site Modification																									5,839	$130	$759,079
4	Phase IV - Telecommunications System Implementation	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,163	1,013	523	523	653	283	283	353	283	283	353	283			56,551	$142	$8,046,566
5	Phase V - Telecommunications System Warranty																											
ODC	Other Direct Costs																						49,552					$50,000
	Total by Phase	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			141,765	$141	$20,034,406
J	Jacobs	344	344	344	344	344	344	344	344	344	344	323	323	163	163	203	83	83	103	83	83	103	83			53,153	$133	$7,087,779
A	APSI	160	160	160	160	160	160	160	160	160	160	40	50	40	40	50	40	40	50	40	40	50	40			8,287	$142	$1,176,754
C	Citadel	320	320	320	320	320	320	320	320	320	320	320	320	160	160	200	80	80	100	80	80	100	80			21,954	$121	$2,646,323
F	Federal	640	640	640	640	640	640	640	640	640	640	480	320	160	160	200	80	80	100	80	80	100	80			58,371	$155	$9,073,551
O	Other																											
ODC	Other Direct Costs																						49,552					$50,000
	Total by Company	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1163	1013	523	523	653	283	283	353	283	283	353	283			141,765	$141	$20,034,406

Long Term Evolution (LTE)	46,861	$155	$7,283,179
Land Mobil Radio (LMR)	141,765	$141	$20,034,406
Grand Total	188,626	$145	$27,317,585

ATTACHMENT B

RATE SCHEDULE

Los Angeles Regional Interoperable Communications Systems (LA-RICS)

Rate/Position Schedule: September 5, 2013

Position	Name	Rate
Program Director	David Roberts	$180
Program Manager	Skip Funk	$180
Senior Project Manager – Radio System Technology	Rick Polehonka	$165
Senior Project Manager – Site/Civil	Mohamad Younes	$165
Program Controls Manager	Marc Glasser	$165
Document Control	Vanessa Montes	$65
Administration	Marina Nguyen	$55
Administration	TBD	$55
System Manager – LTE	TBD	$160
System Manager – LMR	Chris Odenthal	$160
System Design – Backbone Network	TBD	$155
System Design – RF Network	TBD	$155
Supply and Staging – Site Equipment	TBD	$160
Site Assessment	Alexander Van Elden	$142
Constructability/Design Review	TBD	$142
Team Leader – Technology	Misc.	$155
Team Leader – Site/Civil	Misc.	$155
Project Engineer Field Team – Technology	Misc.	$150
Project Engineer Field Team – Site/Civil	Misc.	$150
Contract Administration - Internal	Todd Ritchie	$160
Community Outreach - Subcontract	TBD	$195
Environmental – Biologist-Archeologist-Botanist	TBD	$160
Scheduling	Devang Dedhia	$142
Estimating	TBD	$142
Warranty Support	TBD	$160

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

2525 Corporate Place, Suite 200
Monterey Park, California 91754
(323) 881-8291

PATRICK J. MALLON
EXECUTIVE DIRECTOR

October 3, 2013

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

Dear Directors:

PROVIDE DIRECTION TO AUTHORITY STAFF WHETHER TO EXTEND THE TERM OF THE CURRENT AT-LARGE SEATS OR, ANNOUNCE THE ELECTION OF THE AT-LARGE SEATS

RECOMMENDED ACTION

It is recommended that your Board either:

a. Temporarily suspend Section 3.01 of the Authority's Bylaws and extend the term of the current At-Large Director and Alternate Director seats to June 5, 2014 to allow for continued consistency in the make-up of the Authority's Board to address and complete the LTE procurement and related issues for a Funding Plan;

OR,

b. Announce that the Board meeting to be held on April 3, 2014 as date on which the mail-in ballot election of the At-Large Director and Alternate Director seats shall be conducted.

BACKGROUND

On June 2, 2011, the Board of Directors approved a motion to suspend Section 3.01 of the Authority's Bylaws for a period of one year (per Article III Section 3.01 of the Bylaws), thereby postponing the At-Large Director and Alternate Director elections.

On December 15, 2011, the Board of Directors approved a motion to set the At-Large Member Directors and Alternate Directors mail-in ballot elections for Thursday, June 7, 2012, with the caveat that the Authority's counsel would review the consistency of the Authority's Bylaws with the Joint Powers Agreement regarding which member cities may vote for the At-Large Directors and Alternate Directors.

On February 2, 2012, the Board of Directors approved a motion to vacate the election timeline established since the date selected for the election did not meet the 6-month requirement outlined in the Bylaws due to the rescheduling of the December Board meeting.

On February 27, 2012, we provided the Board of Directors with a confidential attorney-client communication from the Authority's counsel regarding the consistency of the Authority's Bylaws with the Joint Powers Agreement regarding which member cities may vote for the At-Large Directors and Alternate Directors.

AGENDA ITEM 8

On April 5, 2012, the Board of Directors approved a motion to extend the terms of the existing At-Large Directors and Alternate Directors until the new Directors and Alternates were seated.

On June 7, 2012, an item was placed on the Board's agenda to set the date for the elections of the At-Large Directors and Alternate Directors. Board Chair Fujioka asked that the item be continued because critical decisions lay ahead for the Authority and an election would be disruptive. Board Member Alexander concurred and suggested that the Board consider at the next meeting suspending the pertinent provisions of the Authority's Bylaws for a period of one year or whatever time is appropriate.

On July 11, 2012, the Board of Directors approved a motion to suspend Section 3.01 of the Authority's Bylaws until August 1, 2013, thereby suspending elections of the At-Large Directors and Alternate Directors.

On March 14, 2013, the Board recommended action to temporarily suspend Section 3.01 of the Authority's Bylaws and extend the term of the current At-Large Director and Alternate Director seats to April 3, 2014 to allow for continued consistency in the make-up of the Authority's Board to address and complete the LMR and LTE procurements and Funding Plan related issues.

To be in full compliance with the six-month requirement set forth in Section 3.01 of the Authority's Bylaws, the Board of Directors is required to announce today the date of April 3, 2014 as the Board of Directors meeting for which a mail-in ballot election of the At-Large Director and Alternate Director seats will be conducted.

If the Board elects to continue with Recommended Action b, this letter serves as the announcement of April 3, 2014 as mail-in ballot election date. The timeline for elections would continue as follows:

- Not later than January 2, 2014 – Due date for Member cities interested in being candidates to fill an At-Large Director or Alternate Director position to submit to the Secretary of the Board the written statement described in Section 302.2 of the Authority's Bylaws.
- Not later than March 4, 2014 – Due date for the Secretary of the Board to cause a ballot to be mailed to each Member city containing the names of all declared Member city candidates, the written statements of each candidate, and a self-addressed return envelop for the return of ballots.
- Not later than 9:00 a.m. on April 3, 2014 – Due date for each Member city eligible to vote to complete the ballot and return the ballot to the Secretary of the Board.

If the Board elects to temporarily suspend Section 3.01 of the Authority's Bylaws as per Recommended Action a, the term of the current At-Large Director and Alternate Director seats is extended to June 5, 2014.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

In accordance with Section 3.01 of the Authority's Bylaws, the Board is required to announce the date of the Board of Directors meeting for which a mail-in-ballot election of the At-Large Director and Alternate Director seats would be conducted.

FISCAL IMPACT/FINANCING

There is no fiscal impact.

AGREEMENTS/CONTRACTING

No agreements necessary.

Respectfully submitted,

PATRICK J. MALLON
EXECUTIVE DIRECTOR

PJM

c: Counsel to the Authority

LA-RICS

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

2525 Corporate Place, Suite 200
Monterey Park, California 91754
(323) 881-8291

PATRICK J. MALLON
EXECUTIVE DIRECTOR

October 3, 2013

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

Dear Directors:

CALIFORNIA JOINT POWERS INSURANCE AUTHORITY – CERTIFICATOPN OF DIRECTOR AND ALTERNATE(S)

RECOMMENDED ACTION

It is recommended that your Board designate a Board Member to serve as the appointee to represent the Authority on the California Joint Powers Insurance Authority (CJPIA) and the Executive Director to serve as the alternate appointee, all in accordance with the provisions of Article 7 of the CJPIA.

BACKGROUND

At the Authority Board meeting of June 19, 2013, your board delegated authority to the Executive Director, on behalf of the JPA, to take all necessary actions to become a member of the California Joint Powers Insurance Authority (CJPIA), and to participate in its liability program for self-insured loss pooling at the limits previously specified. On June 26, 2013 the CJPIA Executive Committee voted unanimously to allow membership to the Authority. As part of the membership process, the CJPIA requires the attached Certification of Director and Alternate(s) must be completed and return to the CJPIA. We return to your Board today to request that you appoint a Board member as is the required process for CJPIA membership. Additionally, we request that your Board appoint the Executive Director as an alternate appointee.

FISCAL IMPACT/FINANCING

There is no fiscal impact.

FACTS AND PROVISIONS/LEGAL REQUIREMENT

The Authority's counsel has reviewed the recommended actions.

Respectfully submitted,

PATRICK J. MALLON
EXECUTIVE DIRECTOR

PJM:wst

c: Counsel to the Authority

Attachments

AGENDA ITEM 9

CERTIFICATION OF DIRECTOR AND ALTERNATE(S)

I hereby certify that as of this date, the Official Minutes and Records of the Board of the Los Angeles Regional Interoperability Communications System (LA-RICS) confirm that the following persons have been appointed to represent the LA-RICS, in accordance with the provisions of Article 7 of the California Joint Powers Insurance Authority Joint Powers Agreement.

DIRECTOR (Board Member):

Name	Title	email address

ALTERNATE(S) (one or more, may be Board Member or staff):

Name	Title	email address
Name	Title	email address
Name	Title	email address
Name	Title	email address

Secretary Signature

Los Angeles Regional Interoperability Communications System
Agency (please print agency name)

Date

AGENDA ITEM 9 – ATTACHMENT A