



ORANGE COUNTY FIRE AUTHORITY

AGENDA

BOARD OF DIRECTORS REGULAR MEETING

Thursday, October 27, 2016

6:00 P.M.

Regional Fire Operations and Training Center

Board Room

1 Fire Authority Road

Irvine, CA 92602

This Agenda contains a brief general description of each item to be considered. Except as otherwise provided by law, no action or discussion shall be taken on any item not appearing on the following Agenda. Unless legally privileged, all supporting documents, including staff reports, and any writings or documents provided to a majority of the Board of Directors after the posting of this agenda are available for review at the Orange County Fire Authority Regional Fire Operations & Training Center, 1 Fire Authority Road, Irvine, CA 92602 or you may contact Sherry A.F. Wentz, Clerk of the Authority, at (714) 573-6040 Monday through Thursday, and every other Friday from 8 a.m. to 5 p.m. and available online at <http://www.ocfa.org>

If you wish to speak before the Fire Authority Board, please complete a Speaker Form identifying which item(s) you wish to address. Please return the completed form to the Clerk of the Authority prior to being heard before the Board. Speaker Forms are available at the counters of both entryways of the Board Room.



In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, you should contact the Clerk of the Authority at (714) 573-6040.

CALL TO ORDER

INVOCATION by OCFA Chaplain Duncan McColl

PLEDGE OF ALLEGIANCE by Director Baker

ROLL CALL

PRESENTATIONS

No items.

REPORT FROM THE BUDGET AND FINANCE COMMITTEE CHAIR**REPORT FROM THE HUMAN RESOURCES COMMITTEE CHAIR****REPORT FROM THE CLAIMS SETTLEMENT COMMITTEE CHAIR**

There will be no report, due to the cancellation of the meeting.

REPORT FROM THE FIRE CHIEF

- State Wildland Fires Update (Thomas)
- Reserve Firefighter Graduation (Thomas)
- Board Meeting Schedule (Zeller)
- Quarterly CIP Update (Schroeder)
- “Extreme Ownership” Training (Young)
- Fire Captain Testing Process (Young)

PUBLIC COMMENTS

Resolution No. 97-024 established rules of decorum for public meetings held by the Orange County Fire Authority. Resolution No. 97-024 is available from the Clerk of the Authority.

Any member of the public may address the Board on items within the Board’s subject matter jurisdiction but which are not listed on this agenda during PUBLIC COMMENTS. However, no action may be taken on matters that are not part of the posted agenda. We request comments made on the agenda be made at the time the item is considered and that comments be limited to three minutes per person. Please address your comments to the Board as a whole, and do not engage in dialogue with individual Board Members, Authority staff, or members of the audience.

The Agenda and Minutes are now available through the Internet at www.ocfa.org. You can access upcoming agendas on the Monday before the meeting. The minutes are the official record of the meeting and are scheduled for approval at the next regular Board of Directors meeting.

2. MINUTES**A. Minutes from the September 22, 2016, Regular Board of Directors Meeting**

Sherry Wentz, Clerk of the Authority

Recommended Action:

Approve as submitted.

3. CONSENT CALENDAR**A. Updated Cost Reimbursement Rates**

Lori Zeller, Assistant Chief/Business Services Department

Budget and Finance Committee Recommendation: APPROVE

Recommended Action:

Approve and adopt the proposed updated Cost Reimbursement Rate schedules effective October 28, 2016.

B. Budget and Contract Adjustment for Firefighter Turnout Clothing

Lori Zeller, Assistant Chief/Business Services Department

Recommended Actions:

1. Direct staff to release excess General Fund reserves and increase appropriations in the amount of \$2,300,000 in the General Fund (Fund 121) for one-time funding to rollout a second set of turnout clothing for every firefighter.
2. Approve and authorize the Purchasing Manager to increase the AllStar contract (B01569-1) by \$2,500,000 total for the remaining two years for the purchase of additional turnout clothing.

C. Award of Public Works Bid RO2155 Audio Video Systems Upgrade Project

Mike Schroeder, Assistant Chief/Support Services Department

Recommended Actions:

1. Approve the plans and specifications for the audio/visual systems upgrades.
2. Accept the Western Audio Visual bid of September 14, 2016.
3. Approve and award the public works contract to Western Audio Visual in the amount of \$512,296.52.
4. Authorize a 10% (\$51,296) allowance for contingency.

D. Subcontractor Insurance Requirements

Lori Zeller, Assistant Chief/Business Services Department

Budget and Finance Committee Recommendation: *APPROVE*

Recommended Action:

Direct staff to proceed in issuance of future contracts in accordance with staff's recommended Option 1 below.

Option 1: Ensure that future contracts awarded by OCFA include a requirement that any subcontractors must possess insurance that names OCFA as an additional insured. Place responsibility on the primary contractor to verify that any subcontractors have obtained the required insurance, *or*

Option 2: Ensure that future contracts awarded by OCFA include a requirement that any subcontractors must possess insurance that names OCFA as an additional insured. Place responsibility on OCFA staff to verify that any subcontractors have obtained this required insurance. Direct staff to return one quarter after implementation and report on impact to staff workload and need for additional staff, if any.

END OF CONSENT CALENDAR**4. PUBLIC HEARING(S)**

No items.

5. DISCUSSION CALENDAR

A. Final Financial Report for Construction of Fire Station 56 (Sendero Ranch)

Mike Schroeder, Assistant Chief/Support Services Department

Recommended Action:

Receive and file the report.

B. Progress Report for Phase-Two of Emergency Medical Services Service Delivery Enhancements

Brian Young, Assistant Chief/Organizational Planning Department

Recommended Action:

Receive and file the report.

BOARD MEMBER COMMENTS

CLOSED SESSION

No items.

ADJOURNMENT - The next regular meeting of the Orange County Fire Authority Board of Directors is scheduled for Thursday, November 17, 2016, at 6:00 p.m.

AFFIDAVIT OF POSTING

I hereby certify under penalty of perjury under the laws of the State of California, that the foregoing Agenda was posted in the lobby, front gate public display case, and website of the Orange County Fire Authority, Regional Fire Training and Operations Center, 1 Fire Authority Road, Irvine, CA, not less than 72 hours prior to the meeting. Dated this 20th day of October 2016.

Sherry A.F. Wentz, CMC
Clerk of the Authority

UPCOMING MEETINGS:

Budget and Finance Committee Meeting	Wednesday, November 9, 2016, 12 noon
Claims Settlement Committee Meeting	*Thursday, November 17, 2016, 5:00 p.m.
Executive Committee Meeting	*Thursday, November 17, 2016, 5:30 p.m.
Board of Directors Meeting	*Thursday, November 17, 2016, 6:00 p.m.

*Date of meetings moved forward by one week, due to the upcoming Thanksgiving holiday.

MINUTES ORANGE COUNTY FIRE AUTHORITY

**Board of Directors Regular Meeting
Thursday, September 22, 2016
6:00 P.M.**

**Regional Fire Operations and Training Center Board Room
1 Fire Authority Road
Irvine, CA 92602-0125**

CALL TO ORDER

A regular meeting of the Orange County Fire Authority Board of Directors was called to order on September 22, 2016, at 6:06 p.m. by Vice Chair Swift as acting Chair.

INVOCATION

Chaplain Robert Benoun offered the invocation.

PLEDGE OF ALLEGIANCE

Director Gamble led the Assembly in the Pledge of Allegiance to the Flag.

ROLL CALL

Rick Barnett, Villa Park
Laurie Davies, Laguna Niguel
Craig Green, Placentia
Noel Hatch, Laguna Woods
Al Murray, Tustin
Dwight Robinson, Lake Forest
Don Sedgwick, Laguna Hills
David Sloan, Seal Beach
Michele Steggell, La Palma
Tri Ta, Westminster

Lisa Bartlett, County of Orange
Carol Gamble, Rancho Santa Margarita
Shelley Hasselbrink, Los Alamitos
Robert Johnson, Cypress
John Perry, San Juan Capistrano
Ed Sachs, Mission Viejo
David Shawver, Stanton
Todd Spitzer, County of Orange
Elizabeth Swift, Buena Park
Phillip Tsunoda, Aliso Viejo

Absent: Robert Baker, San Clemente
Jeffrey Lalloway, Irvine
Vicente Sarmiento, Santa Ana

Gene Hernandez, Yorba Linda
Joseph Muller, Dana Point

Also present were:

Fire Chief Jeff Bowman
Assistant Chief Brian Young
Assistant Chief Mike Schroeder
Communications Director Sandy Cooney
General Counsel David Kendig

Assistant Chief Dave Thomas
Assistant Chief Lori Zeller
Assistant Chief Lori Smith
Clerk of the Authority Sherry Wentz

PRESENTATIONS

Director Ta arrived at this point (6:11 p.m.).

1. Requests for Commendations and Proclamations

On motion of Director Murray and second by Director Perry, the Board of Directors voted unanimously by those present to approve requests as submitted and make presentations to those present. (X: 11:09)

A. Vice Chair Swift and Fire Chief Bowman presented the purchasing staff with the National Procurement Institute's 2016 Annual Achievement of Excellence in Procurement Award. (F: 17.10I)

Director Robinson arrived at this point (6:16 p.m.).

REPORT FROM THE BUDGET AND FINANCE COMMITTEE CHAIR (F: 11.12)

Budget and Finance Chair Sachs reported at the September 14, 2016, meeting the Committee voted unanimously to send the Monthly Investments Reports and the Annual Investment Report to the Executive Committee to receive and file the reports, and send the Rebudget of FY 2015/16 Uncompleted Projects to the Board of Directors for its approval. The Committee welcomed newly appointed Directors Shelley Hasselbrink and Joe Muller.

REPORT FROM THE CLAIMS SETTLEMENT COMMITTEE CHAIR (F: 11.12)

There was no report due to the cancellation of the September meeting.

REPORT FROM THE FIRE CHIEF (F: 11.14)

Fire Chief Jeff Bowman introduced Assistant Chief Dave Thomas who updated the Board on the California wildfires and the upcoming EMS/Fire deployment demonstrations. Fire Chief Bowman introduced Assistant Chief Mike Schroeder who provided an update on the Urban Search and Rescue warehouse facility.

Directors Spitzer and Gamble suggested staff provide updates on the status of Capital Improvement Projects.

Fire Chief Bowman recommended providing quarterly reports on these projects at Executive Committee meetings.

PUBLIC COMMENTS (F: 11.11)

Stephen Wontrobski, Mission Viejo resident, addressed firefighter's overtime.

2. MINUTES

A. Minutes from the August 25, 2016, Regular Board of Directors Meeting (A) and September 1, 2016, Special Board of Directors Meeting (B) (F: 11.06)

On motion of Director Johnson and second by Director Shawver, the Board of Directors voted unanimously by those present to approve the August 25, 2016, Regular Board of Directors meeting minutes as submitted. Director Murray was recorded an abstention due to his absence from the meeting.

On motion of Director Johnson and second by Director Shawver, the Board of Directors voted by those present to approve the September 1, 2016, Special Board of Directors meeting minutes as submitted. Directors Davies, Hatch, Gamble, and Lalloway were recorded as abstentions due to their absence from the meeting.

3. CONSENT CALENDAR (Consent Item Nos. 3A, 3B, and 3C were pulled for separate consideration.)

A. Carry-over of FY 2015/16 Uncompleted Projects (F: 15/04 FY15/16)

Stephen Wontrobski, Mission Viejo resident, pulled this item from the Consent Calendar for separate consideration to state his opposition for the non-release of auditor work papers and carryovers for fire apparatus.

On motion of Director Murray and second by Director Johnson, the Board of Directors voted unanimously by those present to authorize the following FY 2016/17 budget adjustments, which are funded from unexpended fund balance available from FY 2015/16:

<u>Fund</u>	<u>Increase Revenue</u>	<u>Increase Appropriations</u>	<u>Appropriate Fund Balance</u>
121 General Fund	\$686,889	\$1,356,822	\$669,933
12110 General Fund CIP	0	4,168,410	4,168,410
123 Fire Stations and Facilities	0	738,686	738,686
124 Comm. and Info. Systems	0	1,609,482	1,609,482
133 Fire Apparatus	0	7,175,845	7,175,845
Totals	\$686,889	\$15,049,245	\$14,362,356

Director Murray was present for the vote of the remainder of the Consent Calendar (Item No. 3D) and left at this point (7:00 p.m.)

B. Adoption of Revised Conflict of Interest Code (F: 20.02A1)

Stephen Wontrobski, Mission Viejo resident, pulled this item from the Consent Calendar for separate consideration to state his opposition to the proposed Conflict of Interest Code.

On motion of Director Gamble and second by Director Johnson, the Board of Directors voted by those present to adopt Resolution No. 2016-07 entitled A RESOLUTION OF THE BOARD OF DIRECTORS OF THE ORANGE COUNTY FIRE AUTHORITY ADOPTING A CONFLICT OF INTEREST CODE WHICH SUPERSEDES ALL PRIOR CONFLICT OF INTEREST CODES AND AMENDMENTS PREVIOUSLY ADOPTED revising the Conflict of Interest Code, and direct the Clerk of the Authority to submit the adopted Resolution to the Orange County Board of Supervisors, as the Code reviewing body, for approval.

Director Murray was absent for the vote.

C. 100' Tractor Drawn Aerials (Quints) FY 2016/17 Budget Adjustment (F: 15.04 FY16/17; X: 19.09A)

Stephen Wontrobski, Mission Viejo resident, pulled this item from the Consent Calendar for separate consideration to state his opposition to the bid process.

On motion of Director Gamble and second by Director Johnson, the Board of Directors voted to direct staff to increase appropriations in the amount of \$2,759,368 in the Vehicle Replacement Fund (Fund 133).

Director Murray was absent for the vote.

D. Award of Public Works Contract for Upgrade of Emergency Power Distribution at the Regional Fire Operations and Training Center (F: 19.07B18)

On motion of Director Murray and second by Director Shawver, the Board of Directors voted unanimously by those present to:

1. Find the project is categorically exempt from the California Environmental Quality Act.
2. Approve the plans and specifications for the emergency power upgrade at the Regional Fire Operations and Training Center.
3. Approve and award the public works contract to GA Technical Services Inc. in the amount of \$372,324.
4. Authorize a 10% (\$37,232) allowance for contingency.

END OF CONSENT CALENDAR

4. PUBLIC HEARING(S)

No items.

CLOSED SESSION (F: 11:15)

General Counsel David Kendig reported the Board would be convening to Closed Session to consider the matters on the Agenda identified as CS1, Conference with Labor Negotiator and CS2, Conference with Legal Counsel-Existing Litigation.

Vice Chair Swift recessed the meeting to Closed Session at 7:13 p.m.

CS1. CONFERENCE WITH LABOR NEGOTIATOR

Agency Designated Representatives: Board Chair Gene Hernandez, Board Vice Chair Beth Swift, Budget, Immediate Past Board Chair Al Murray, and Finance Committee Chair Ed Sachs

Unrepresented Employee: Fire Chief

Authority: Government Code Section 54957.6

CS2. CONFERENCE WITH LEGAL COUNSEL-EXISTING LITIGATION

Name of Case: Medix Ambulance Inc. v. Orange County Fire Authority

Case No.: OC Superior Court Case No. 30-2015-00773054-CU-BT-CJC

Authority: Government Code Section 54956.9(d)(1)

Director Gamble left at this point (8:12 p.m.).

Director Perry left at this point (8:12 p.m.).

Vice Chair Swift reconvened the meeting at 8:12 p.m.

CLOSED SESSION REPORT (F: 11.15)

General Counsel David Kendig reported the Orange County Fire Authority Board of Directors authorized the filing of a petition for writ of mandate challenging the trial court's ruling on the demurrer relating to the Medix litigation.

5. DISCUSSION CALENDAR

A. Amendment to Employment Agreement with Fire Chief Jeff Bowman (F: 17.10A2)

Assistant Chief Brian Young introduced the staff report.

On motion of Director Johnson and second by Director Green, the Board of Directors voted by those present to approve an amendment to the employment agreement with Fire Chief Jeff Bowman. Director Barnett opposed the amendment suggesting he supports Fire Chief Bowman, but could not support the spending of discretionary money.

Directors Gamble, Murray, and Perry were absent for the vote.

Director Ta left at this point (8:25 p.m.).

B. Request by Director Barnett: Pension Termination Liability Estimate, Pension Liability Data Extract, Pension Reform Committee, & Pre-Retirement Workers' Compensation Data (F: 11.13)

Assistant Chief Brian Young introduced the staff report.

Stephen Wontrobski, Mission Viejo resident, thanked the Board for bringing this issue to the forefront and suggested there is a need for worker's compensation reform.

Lengthy discussion ensued.

On motion of Director Sachs and second by Vice Chair Swift, the Board of Directors voted by those present to forward the recommended actions as follows to the Pension Reform Ad Hoc Committee for its review, report back to the Board of Directors with its recommendations, and the Board of Directors receive and file the report as submitted. Director Barnett voted in opposition for lack of consideration of the independent study on pension termination liability.

Directors Gamble, Murray, Perry, and Ta were absent for the vote.

BOARD MEMBER COMMENTS (F: 11.13)

Director Green reported attending the 9/11 Remembrance Ceremony at Fire Station 34 and the Richard M. Nixon Library event for 9/11 where Fire Chief Jeff Bowman gave a standing ovation key note speech.

Director Bartlett attended a public safety conference where there were demonstrations of drone technology. She inquired if there was an established policy for the utilization of drones for search and rescue, and fires.

Assistant Chief Brian Young reported a meeting with various county agency officials is scheduled to discuss setting a county policy for the potential uses of drones.

Director Johnson reported attending the 9/11 Remembrance Ceremony at Fire Station 17 with several city police units in attendance as well.

Director Hatch reported attending the 9/11 Remembrance Ceremony at Fire Station 22.

Director Hasselbrink reported attending the 9/11 Remembrance Ceremony at Fire Station 2.

Director Sachs reported attending the 9/11 Remembrance Ceremony at Fire Station 9.

Vice Chair Swift reported attending the Orange County Fire Authority's 9/11 Remembrance Ceremony and commended Director Spitzer's speech at the event.

ADJOURNMENT – Vice Chair Swift adjourned the meeting at 9:08 p.m. in memory of Ventura County Firefighter Ryan Osler who died earlier today in an accident in route to the Canyon Fire. The next regular meeting of the Orange County Fire Authority Board of Directors is scheduled for Thursday, October 27, 2016, at 6:00 p.m.

Sherry A.F. Wentz, CMC
Clerk of the Authority



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 3A
Consent Calendar

Updated Cost Reimbursement Rates

Contact(s) for Further Information

Lori Zeller, Assistant Chief Business Services Department	lorizeller@ocfa.org	714.573.6020
Jim Ruane, Finance Manager/Auditor	jimruane@ocfa.org	714.573.6304

Summary

This agenda item is submitted to review and approve the proposed update to the Cost Reimbursement Rates to reflect the changes in the new Memorandum of Understandings labor contracts for the Orange County Chief Officers Association and Orange County Professional Firefighters Association.

Prior Board/Committee Action(s)

Budget and Finance Committee Recommendation: *APPROVE*

The Board of Directors approved and adopted the FY 2016/17 Cost Reimbursement Rate schedules on July 28, 2016.

At its regular October 12, 2016, meeting, the Budget and Finance Committee reviewed and unanimously recommended approval of this item.

RECOMMENDED ACTION(S)

Approve and adopt the proposed updated Cost Reimbursement Rate schedules effective October 28, 2016.

Impact to Cities/County

Not Applicable.

Fiscal Impact

The fiscal impact of the new rates will be based on the number of incidents that occur throughout the year and will be incorporated into the mid-year budget update.

Background

The Cost Reimbursement Rates are generally updated annually using the methodologies and formulas outlined in the California Fire and Rescue Mutual Aid System Operating Plan. These rates will be used when OCFA resources are ordered by various Federal (Cleveland National Park Forest Service) and State (CAL FIRE) agencies. The California Office of Emergency Services (Cal OES) requires a different method to calculate reimbursement rates for non-suppression personnel only. Both methods are designed to only reimburse OCFA for the marginal cost of providing the resources and are calculated in three separate components: personnel rate, the indirect (overhead) cost rate, and equipment rate.

Additionally, new overhead positions that have not previously participated in fire incidents are now being ordered by various Federal and State agencies. The new positions included:

- Assistant Fire Marshal
- Finance Manager/Auditor
- Fire Prevention Analyst
- Fire Prevention Specialist
- Senior Fire Prevention Specialist

Summary

Upon approval of the proposed rates, included as Attachment 1A, 1B and 2, OCFA Finance/Cost Recovery Section will use them for the following activity or program:

- CAL FIRE, Cal OES, Cleveland National Forest Fire/Incident response (generally referred to as Assistance by Hire Rates)
- Fire/Incident Restitution (including HazMat)
- Special Event Stand-By
- Other Miscellaneous Billings

Attachment(s)

1. Proposed Cost Reimbursement Rates – Personnel
 - a. Proposed Cost Reimbursement Rates – All Agencies except Cal OES
 - b. Proposed Cost Reimbursement Rates – Cal OES
2. Proposed Cost Reimbursement Rates – Equipment

ORANGE COUNTY FIRE AUTHORITY
COST REIMBURSEMENT RATES FOR ALL BILLING AGENCIES (EXCEPT CAL OES)
PERSONNEL
EFFECTIVE OCTOBER 28, 2016

CLASSIFICATION	2016/17 ADOPTED RATES 7/28/16	2016/17 REVISED RATE with ICRP (1)	\$ CHANGE	% CHANGE
SUPPRESSION PERSONNEL				
FIRE DIVISION CHIEF	\$146.25	\$152.91	\$6.66	4.55%
FIRE BATTALION CHIEF (SHIFT)	\$89.29	\$95.70	\$6.41	7.18%
FIRE BATTALION CHIEF (STAFF)	\$129.64	\$136.07	\$6.43	4.96%
FIRE CAPTAIN (FC)	\$68.91	\$72.69	\$3.78	5.48%
FC/HAZMAT	\$72.93	\$78.57	\$5.64	7.73%
FC/HAZMAT PARAMEDIC	\$78.28	\$86.40	\$8.12	10.37%
FC/HAZMAT SPECIALIST	\$74.27	\$80.53	\$6.26	8.43%
FC/PARAMEDIC	\$76.94	\$84.44	\$7.50	9.75%
FC/TECH RESCUE TRUCK	\$72.93	\$78.57	\$5.64	7.73%
FIRE APPARATUS ENGINEER (FAE)	\$59.88	\$62.42	\$2.54	4.24%
FAE/HAZMAT	\$63.89	\$68.29	\$4.40	6.88%
FAE/HAZMAT PARAMEDIC	\$69.25	\$76.13	\$6.88	9.93%
FAE/HAZMAT SPECIALIST	\$65.23	\$70.25	\$5.02	7.69%
FAE/PARAMEDIC	\$67.91	\$74.17	\$6.26	9.22%
FAE/TECH RESCUE TRUCK	\$63.89	\$68.29	\$4.40	6.88%
FIREFIGHTER (FF)	\$51.08	\$52.95	\$1.87	3.66%
FF/HAZMAT	\$55.10	\$58.83	\$3.73	6.77%
FF/HAZMAT PARAMEDIC	\$60.45	\$66.66	\$6.21	10.27%
FF/HAZMAT SPECIALIST	\$56.44	\$60.79	\$4.35	7.71%
FF/PARAMEDIC	\$59.12	\$64.70	\$5.59	9.45%
FF/TECH RESCUE TRUCK	\$55.10	\$58.83	\$3.73	6.77%
HAND CREW (FIREFIGHTER)	\$33.59	\$36.84	\$3.25	9.67%
HAND CREW SUPERVISOR (FIRE CAPTAIN)	\$68.47	\$71.56	\$3.10	4.52%
HAND CREW SUPERVISOR (FIRE APP. ENGINEER)	\$60.04	\$62.77	\$2.72	4.53%
HAND CREW SUPERVISOR (FIREFIGHTER)	\$53.54	\$55.97	\$2.42	4.53%
HEAVY FIRE EQUIPMENT OPERATOR	\$91.93	\$96.11	\$4.18	4.54%
FIRE PILOT	\$70.30	\$73.49	\$3.19	4.54%
LEAD FIRE PILOT	\$75.14	\$84.50	\$9.36	12.46%
NON-SUPPRESSION PERSONNEL				
ACCOUNTANT	\$71.62	\$71.64	\$0.03	0.04%
ASST. IT MANAGER	\$82.83	\$82.13	(\$0.71)	-0.85%
ASST. FIRE APPARATUS TECHNICIAN	\$51.60	\$56.51	\$4.90	9.50%
ASST. FIRE MARSHAL	n/a	\$94.01	n/a	n/a
ASST. PURCHASING AGENT	\$73.26	\$73.29	\$0.03	0.04%
BUYER	\$52.95	\$52.98	\$0.02	0.04%
COMMUNICATIONS TECHNICIAN	\$54.45	\$54.47	\$0.02	0.04%
EMERGENCY TRANSPORTATION TECH.	\$26.51	\$24.31	(\$2.20)	-8.31%
FINANCE MANAGER	n/a	\$95.51	n/a	n/a
FIRE APPARATUS TECHNICIAN	\$62.62	\$62.64	\$0.02	0.04%
FIRE COMM RELAT/ED SPECIALIST	\$57.99	\$62.76	\$4.77	8.23%
FIRE COMMUNICATIONS DISPATCHER	\$62.54	\$62.67	\$0.13	0.21%
FIRE COMMUNICATIONS SUPERVISOR	\$71.33	\$72.31	\$0.97	1.37%
FIRE EQUIPMENT TECHNICIAN	\$37.71	\$36.73	(\$0.97)	-2.58%
FIRE HELICOPTER TECHNICIAN	\$77.52	\$77.55	\$0.03	0.04%
FIRE PREVENTION ANALYST	n/a	\$92.12	n/a	n/a
FIRE PREVENTION SPECIALIST	n/a	\$63.83	n/a	n/a
FLEET SERVICES COORDINATOR	\$76.18	\$76.21	\$0.03	0.04%
FLEET SERVICES SUPERVISOR	\$76.91	\$79.01	\$2.10	2.73%
GENERAL LABORER	\$32.71	\$32.73	\$0.01	0.04%
GIS ANALYST	\$79.75	\$79.78	\$0.03	0.04%
INFORMATION TECHNOLOGY ANALYST	\$82.80	\$91.49	\$8.69	10.49%

Note:

(1) Revised rates included recent labor contracts approved by the Board.

ORANGE COUNTY FIRE AUTHORITY
COST REIMBURSEMENT RATES FOR ALL BILLING AGENCIES (EXCEPT CAL OES)
PERSONNEL
EFFECTIVE OCTOBER 28, 2016

CLASSIFICATION	2016/17 ADOPTED RATES 7/28/16	2016/17 REVISED RATE with ICRP (1)	\$ CHANGE	% CHANGE
SUPPRESSION PERSONNEL				
INFORMATION TECHNOLOGY SUPERVISOR	\$117.42	\$117.46	\$0.05	0.04%
MEDICAL DIRECTOR	\$89.60	\$89.64	\$0.04	0.04%
PURCHASING MANAGER	\$89.60	\$89.64	\$0.04	0.04%
RESERVE FIREFIGHTER	\$1.94	\$1.94	\$0.00	0.04%
SERVICE CENTER LEAD	\$70.24	\$70.27	\$0.03	0.04%
SERVICE CENTER SUPERVISOR	\$83.79	\$83.82	\$0.03	0.04%
SR. ACCOUNTANT	\$59.85	\$68.16	\$8.31	13.88%
SR. COMMUNICATIONS TECHNICIAN	\$69.96	\$69.98	\$0.03	0.04%
SR. FIRE APPARATUS TECHNICIAN	\$64.33	\$62.83	(\$1.49)	-2.32%
SR. FIRE COMMUNICATIONS SUPV.	\$80.50	\$80.53	\$0.03	0.04%
SR. FIRE EQUIPMENT TECHNICIAN	\$56.54	\$56.94	\$0.40	0.71%
SR. FIRE HELICOPTER TECHNICIAN	\$84.30	\$84.33	\$0.03	0.04%
SR. FIRE PREVENTION SPECIALIST	n/a	\$84.89	n/a	n/a
SR. INFO TECHNOLOGY ANALYST	\$102.54	\$101.36	(\$1.17)	-1.14%
WILDLAND FIRE DEFENSE PLANNER	\$82.45	\$82.48	\$0.03	0.04%

MUTUALLY BENEFICIAL RATES:				
HAND CREW (FIREFIGHTER)	\$18.18	\$19.93	\$1.75	9.63%
HAND CREW SUPERVISOR (STAFF FIRE CAPTAIN)	\$37.06	\$38.72	\$1.66	4.48%
HAND CREW SUPERVISOR (STAFF FIRE APP. ENGINEER)	\$32.50	\$33.96	\$1.46	4.49%
HAND CREW SUPERVISOR (STAFF FIREFIGHTER)	\$28.98	\$30.28	\$1.30	4.49%
HEAVY FIRE EQUIPMENT OPERATOR	\$49.76	\$52.00	\$2.24	4.50%
SWAMPER/HAND CREW FF	\$18.18	\$19.93	\$1.75	9.63%

Note:

(1) Revised rates included recent labor contracts approved by the Board.

**ORANGE COUNTY FIRE AUTHORITY
 COST REIMBURSEMENT RATES FOR CAL OES BILLINGS ONLY
 PERSONNEL
 EFFECTIVE OCTOBER 28, 2016**

CLASSIFICATION	2016/17 ADOPTED RATE 7/28/16					2016/17 REVISED RATE (3)	\$ CHANGE	% CHANGE
SUPPRESSION POSITIONS								
FIRE DIVISION CHIEF	\$146.25					\$152.91	\$6.66	4.55%
FIRE BATTALION CHIEF	\$109.47					\$115.89	\$6.42	5.86%
FIRE CAPTAIN	\$72.33					\$79.66	\$7.33	10.13%
FIRE APPARATUS ENGINEER	\$61.41					\$66.98	\$5.57	9.07%
FIREFIGHTER	\$55.35					\$59.68	\$4.33	7.82%
HAND CREW (FIREFIGHTER)	\$33.59					\$36.84	\$3.25	9.67%
HAND CREW SUPERVISOR (FIRE CAPTAIN)	\$68.47					\$71.56	\$3.10	4.52%
HAND CREW SUPERVISOR (FIRE APP. ENGINEER)	\$60.04					\$62.77	\$2.72	4.53%
HAND CREW SUPERVISOR (FIREFIGHTER)	\$53.54					\$55.97	\$2.42	4.53%
HEAVY FIRE EQUIPMENT OPERATOR	\$91.93					\$96.11	\$4.18	4.54%
FIRE PILOT	\$70.30					\$73.49	\$3.19	4.54%
LEAD FIRE PILOT	\$75.14					\$84.50	\$9.36	12.46%
NON-SUPPRESSION POSITIONS								
CLASSIFICATION	2016/17 ADOPTED REGULAR RATE 7/28/16	2016/17 ADOPTED OT RATE 7/28/16	2016/17 REVISED REGULAR RATE (3)	\$ CHANGE	% CHANGE	2016/17 REVISED OT RATE (3)	\$ CHANGE	% CHANGE
ACCOUNTANT	\$70.36	\$71.62	\$70.39	\$0.03	0.04%	\$71.64	\$0.02	0.03%
ASST. IT MANAGER	\$126.13	\$82.83	\$125.18	(\$0.95)	-0.75%	\$82.13	(\$0.70)	-0.85%
ASST. FIRE APPARATUS TECHNICIAN	\$52.97	\$51.60	\$57.33	\$4.36	8.23%	\$56.51	\$4.91	9.51%
ASST. PURCHASING AGENT	\$71.83	\$73.26	\$71.85	\$0.02	0.03%	\$73.29	\$0.03	0.04%
ASST. FIRE MARSHAL	n/a	n/a	\$90.29	n/a	n/a	\$94.01	n/a	n/a
BUYER	\$53.75	\$52.95	\$53.77	n/a	n/a	\$52.98	n/a	n/a
COMMUNICATIONS TECHNICIAN	\$55.08	\$54.45	\$55.10	\$0.02	0.04%	\$54.47	\$0.02	0.04%
EMERGENCY TRANSPORTATION TECH.	\$30.21	\$26.51	\$28.24	(\$1.97)	-6.51%	\$24.31	(\$2.20)	-8.30%
FINANCE MANAGER	n/a	n/a	\$143.05	n/a	n/a	\$95.51	n/a	n/a
FIRE APPARATUS TECHNICIAN	\$62.78	\$62.62	\$62.79	\$0.01	0.02%	\$62.64	\$0.02	0.03%
FIRE COMM RELAT/ED SPECIALIST	\$58.23	\$57.99	\$62.47	\$4.24	7.28%	\$62.76	\$4.77	8.22%
FIRE COMMUNICATIONS DISPATCHER	\$62.28	\$62.54	\$62.40	\$0.12	0.19%	\$62.67	\$0.13	0.20%
FIRE COMMUNICATIONS SUPV.	\$70.12	\$71.33	\$70.97	\$0.85	1.22%	\$72.31	\$0.98	1.37%
FIRE EQUIPMENT TECHNICIAN	\$40.60	\$37.71	\$39.73	(\$0.87)	-2.15%	\$36.73	(\$0.98)	-2.59%
FIRE HELICOPTER TECHNICIAN	\$76.05	\$77.52	\$76.06	\$0.01	0.02%	\$77.55	\$0.03	0.04%
FIRE PREVENTION ANALYST	n/a	n/a	\$88.61	n/a	n/a	\$92.12	n/a	n/a
FIRE PREVENTION SPECIALIST	n/a	n/a	\$63.43	n/a	n/a	\$63.83	n/a	n/a
FLEET SERVICES COORDINATOR	\$74.43	\$76.18	\$74.46	\$0.03	0.04%	\$76.21	\$0.03	0.04%
FLEET SERVICES SUPERVISOR	\$75.50	\$76.91	\$77.37	\$1.87	2.48%	\$79.01	\$2.10	2.74%
GENERAL LABORER	\$36.16	\$32.71	\$36.16	(\$0.00)	0.00%	\$32.73	\$0.02	0.05%
GIS ANALYST	\$77.61	\$79.75	\$77.63	\$0.02	0.03%	\$79.78	\$0.03	0.04%
INFORMATION TECHNOLOGY ANALYST	\$80.32	\$82.80	\$88.06	\$7.74	9.64%	\$91.49	\$8.69	10.50%
INFORMATION TECHNOLOGY SUPERVISOR	\$111.14	\$117.42	\$111.18	\$0.04	0.04%	\$117.46	\$0.04	0.04%
MEDICAL DIRECTOR	\$135.17	\$89.60	\$135.20	\$0.03	0.02%	\$89.64	\$0.04	0.04%
PURCHASING MANAGER	\$135.17	\$89.60	\$135.20	\$0.03	0.02%	\$89.64	\$0.04	0.04%
RESERVE FIREFIGHTER	\$2.70	\$1.94	\$2.70	(\$0.00)	-0.07%	\$1.94	(\$0.00)	-0.17%
SERVICE CENTER LEAD	\$69.14	\$70.24	\$69.15	\$0.01	0.02%	\$70.27	\$0.03	0.04%
SERVICE CENTER SUPERVISOR	\$81.63	\$83.79	\$81.64	\$0.01	0.01%	\$83.82	\$0.03	0.04%
SR. ACCOUNTANT	\$95.45	\$59.85	\$106.54	\$11.09	11.61%	\$68.16	\$8.31	13.88%
SR. COMMUNICATIONS TECHNICIAN	\$68.88	\$69.96	\$68.91	\$0.03	0.04%	\$69.98	\$0.02	0.04%
SR. FIRE APPARATUS TECHNICIAN	\$64.29	\$64.33	\$62.96	(\$1.33)	-2.07%	\$62.83	(\$1.50)	-2.33%
SR. FIRE COMMUNICATIONS SUPV.	\$78.28	\$80.50	\$78.30	\$0.02	0.03%	\$80.53	\$0.03	0.04%
SR. FIRE EQUIPMENT TECHNICIAN	\$57.37	\$56.54	\$57.71	\$0.34	0.60%	\$56.94	\$0.40	0.71%
SR. FIRE HELICOPTER TECHNICIAN	\$82.08	\$84.30	\$82.10	\$0.02	0.03%	\$84.33	\$0.03	0.04%
SR. FIRE PREVENTION SPECIALIST	n/a	n/a	\$82.17	n/a	n/a	\$84.89	n/a	n/a
SR. INFO TECHNOLOGY ANALYST	\$97.89	\$102.54	\$96.85	(\$1.04)	-1.07%	\$101.36	(\$1.18)	-1.15%
WILDLAND FIRE DEFENSE PLANNER	\$80.02	\$82.45	\$80.03	\$0.01	0.01%	\$82.48	\$0.03	0.04%

Notes:

- (1) Adjustment to management positions to reflect overtime as straight time rather than 1.5 x hourly rate.
- (2) Paramedic (\$6.365/hr), HazMat (\$3.18/hr), HazMat Paramedic (\$7.42/hr), HazSpecialist (\$4.24/hr) and Tech Rescue Truck (\$3.18/hr) specialty pays are now included in the FC, FAE and FF average rates per Cal OES approved methodology.
- (3) Revised rates included recent labor contracts approved by the Board.

ORANGE COUNTY FIRE AUTHORITY
COST REIMBURSEMENT RATES
EQUIPMENT
EFFECTIVE JULY 1, 2016

DESCRIPTION	2015/16 RATE	2016/17 RATE	\$ CHANGE	% CHANGE	SOURCE	Hourly / Daily
TYPE 1 ENGINE	\$85.00	\$91.00	\$6.00	7.06%	FEMA	Hourly
TYPE 2 ENGINE	\$70.00	\$80.00	\$10.00	14.29%	FEMA	Hourly
TYPE 3 ENGINE	\$70.00	\$80.00	\$10.00	14.29%	FEMA	Hourly
TRUCK/QUINT	\$85.00	\$91.00	\$6.00	7.06%	FEMA	Hourly
PATROL UNIT (Type 6/ Swift Water Rescue)	\$70.00	\$80.00	\$10.00	14.29%	FEMA	Hourly
AIRPORT CRASH UNIT	\$85.00	\$91.00	\$6.00	7.06%	FEMA	Hourly
CREW CARRYING VEHICLE	\$20.00	\$21.75	\$1.75	8.75%	FEMA	Hourly
DOZER TRANSPORT	\$65.25	\$73.25	\$8.00	12.26%	FEMA	Hourly
DOZER	\$65.00	\$72.50	\$7.50	11.54%	FEMA	Hourly
DOZER TRAILER	\$12.50	\$14.00	\$1.50	12.00%	FEMA	Hourly
DOZER TENDER	\$20.00	\$26.00	\$6.00	30.00%	FEMA	Hourly
GRADER	\$58.00	\$54.50	(\$3.50)	-6.03%	FEMA	Hourly
LOADER	\$40.00	\$44.00	\$4.00	10.00%	FEMA	Hourly
DUMP TRUCK	\$65.00	\$77.25	\$12.25	18.85%	FEMA	Hourly
CHIPPER	\$21.75	\$25.00	\$3.25	14.94%	FEMA	Hourly
COMPACT TRACK LOADER	\$22.00	\$26.50	\$4.50	20.45%	FEMA	Hourly
MEDIC UNIT	\$96.00	\$96.00	\$0.00	0.00%	Cal OES	Daily
MECHANIC SERVICE TRUCK	\$96.00	\$96.00	\$0.00	0.00%	Cal OES	Daily
WATER TENDER	\$31.00	\$36.75	\$5.75	18.55%	FEMA	Hourly
FUEL TENDER	\$31.00	\$36.75	\$5.75	18.55%	FEMA	Hourly
AIR/LIGHT UTILITY	\$24.00	\$29.00	\$5.00	20.83%	FEMA	Hourly
FIRE COMMAND UNIT	\$20.00	\$21.75	\$1.75	8.75%	FEMA	Hourly
SPORT UTILITY VEHICLE	\$96.00	\$96.00	\$0.00	0.00%	Cal OES	Daily
PICKUP (less than 3/4 ton)	\$96.00	\$86.00	(\$10.00)	-10.42%	Cal OES	Daily
SEDAN	\$47.00	\$47.00	\$0.00	0.00%	Cal OES	Daily
VAN	\$109.00	\$109.00	\$0.00	0.00%	Cal OES	Daily
OTHER (3/4 ton and above)	\$96.00	\$96.00	\$0.00	0.00%	Cal OES	Daily
HAZMAT (Unit 4)	\$85.00	\$91.00	\$6.00	7.06%	FEMA	Hourly
HAZMAT (Unit 79)	\$85.00	\$91.00	\$6.00	7.06%	FEMA	Hourly
HAZMAT (Unit 204)	\$20.00	\$24.25	\$4.25	21.25%	FEMA	Hourly
HELICOPTER - BELL SUPER HUEY (1)	\$1,187.68	\$1,329.74	\$142.06	11.96%	OCFA	Hourly
HELICOPTER - BELL 412 (1)	\$4,817.79	\$4,191.13	(\$626.66)	-13.01%	OCFA	Hourly

Notes:

1. Helicopter rates are based on 20 years useful life without the pilot and crew chief (Captain). The new rate reflects average usage for the past four years.



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 3B
Consent Calendar

**Budget and Contract Adjustment for
Firefighter Turnout Clothing**

Contact(s) for Further Information

Lori Zeller, Assistant Chief Business Services Department	lorizeller@ocfa.org	714.573.6020
Debbie Casper, Purchasing Manager	debbiecasper@ocfa.org	714.573.6641

Summary

This item is submitted for approval to increase the budget and purchasing contract for firefighter turnout clothing to allow for the purchase of a second set of turnouts for all firefighters in keeping with OCFA's commitment to firefighter safety as it relates to reducing the cancer risk associated with contaminant exposure. The second set of turnouts will enable personnel to clean their turnout clothing more frequently, which will reduce the contaminant exposure.

Prior Board/Committee Action

On January 15, 2015, the Executive Committee awarded a contract based on a competitive solicitation (DC1925) to AllStar Fire Equipment Inc. for the periodic replacement of one set of turnout clothing per firefighter, for a three year term at \$1,200,000.

RECOMMENDED ACTION(S)

1. Direct staff to release excess General Fund reserves and increase appropriations in the amount of \$2,300,000 in the General Fund (Fund 121) for one-time funding to rollout a second set of turnout clothing for every firefighter.
2. Approve and authorize the Purchasing Manager to increase the AllStar contract (B01569-1) by \$2,500,000 total for the remaining two years for the purchase of additional turnout clothing.

Impact to Cities/County

Not Applicable.

Fiscal Impact

This action results in a one-time financial impact of \$2,300,000 to be funded by release of General Fund reserves. Reserves currently exceed the required 10% General Fund contingency reserve.

Background

The Service Center is responsible for the purchase, repair, cleaning and inventory of firefighter turnout clothing. An inventory of turnouts is maintained in order to provide loaner and replacement gear to personnel as needed with an average of 129 jackets and 167 pants purchased annually to provide for new hires and replacement garments. The budget for replacement turnouts has been \$400,000 for the past ten years. While expenditures in the first contract year were below \$400,000, it is anticipated that expenditures during the remaining two contract years will be substantially greater due to an operational change requiring an increase in quantities

(described further in the following paragraph) even though the contract provides fixed pricing for turnouts through January 31, 2018.

In May 2016, a memo was distributed to all OCFA personnel affirming OCFA’s commitment to firefighter safety as it relates to the cancer risk associated with contaminant exposure. A goal of issuing a second set of turnouts was established to reduce firefighter exposure to carcinogenic contaminants that result from the duties of emergency response. Many other fire agencies in Orange County and Southern California issue their firefighters two sets of turnouts (See Attachment). The current operating procedure, with only one set of turnouts per firefighter, requires that OCFA companies go out of service to exchange turnouts while their personal set is decontaminated. Issuing a second set of protective clothing allows for more efficient field operations while also improving safety.

Beginning with Academy 42 in April 2016, a second set of turnouts was issued to the 36 graduates. With two additional academies scheduled, and to enable rollout of a second set of turnouts to all existing suppression personnel (firefighters and battalion chiefs), staff is requesting an increase to the budget and the AllStar contract for the remaining two years of the contract term. It is anticipated that the roll-out will occur in a phased approach that will take place during an 18-month distribution period. The total contract cost increase associated with issuing the second set of turnouts is estimated at \$2,500,000 as follows:

Current Turnout Pricing & Proposed Contract Increase	
Turnout Coat Lion V-Force CVFM-K7	\$1,078.85
Turnout Pants Lion V-Force PVF/M-K7	667.05
Name Panel	9.05
Suspenders	23.15
OCFA Elastic Straps	10.55
Sales Tax (8%)	143.09
Total Cost Per Turnout Set	\$1,931.74
Cost for 1,000 Personnel	\$1,931,740.00
Cost for 35 Sets Added Inventory	\$67,610.90
Costs Incurred for Recent/Upcoming Academies	\$500,000.00
Total Estimated Cost Increase	\$2,499,350.90

Staff anticipates there will be additional requests for routine replacement of the first set of turnouts that personnel already possess during the remaining contract term based on approximately 100 suppression personnel wearing turnouts that are or will become eligible for replacement prior to January 31, 2018. The National Fire Protection Association (NFPA) recommends that turnouts be replaced every ten years. Requests for new turnouts will be accommodated in support of OCFA’s commitment to mitigate the risk of firefighter cancer, and to replace those turnouts that become damaged beyond a condition economical to repair.

Since the contract volume is exceeding what was anticipated when the contract was established, staff has initiated negotiations with AllStar to leverage the added volume and hold the current pricing for an extended period of time. At this time, staff recommends approval to increase Blanket Order B01569-1 by \$2,500,000 through January 31, 2018. Staff is also requesting approval for a budget adjustment of \$2,300,000 (the \$200,000 difference will be funded with the existing budget).

Attachment(s)

List of Other Fire Agencies Issuing Two Sets of Turnouts

**Orange County Fire Authority
Issuance of Second Set of Turnout Clothing to Firefighters**

Other Fire Agencies Issuing Two Sets of Turnouts

Issuance of a second set of protective turnout clothing is the current practice of many neighboring agencies in Orange County and Southern California. The following fire agencies are currently issuing two sets of turnouts to their firefighters:

- Anaheim Fire Department
- Brea Fire Department
- Costa Mesa Fire Department
- Fullerton Fire Department
- Garden Grove Fire Department
- Huntington Beach Fire Department
- Newport Fire Department
- Los Angeles County Fire
- Los Angeles City Fire
- Riverside County Fire
- San Diego City Fire
- Ventura County Fire Protection District



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 3C
Consent Calendar

Award of Public Works Bid RO2155
Audio Video Systems Upgrade Project

Contact(s) for Further Information

Mike Schroeder, Assistant Chief Support Services Department	michaelschroeder@ocfa.org	714.573.6008
Joel Brodowski, IT Manager	joelbrodowski@ocfa.org	714.573.6421

Summary

This agenda item seeks approval of the plans and specifications for the upgrade of audio/visual (AV) systems in the boardroom, board breakout room, and four additional classrooms at the Regional Fire Operations and Training Center (RFOTC) and public works contract award to Western Audio Visual, the lowest responsive and responsible bidder, responding to formal bid RO2155.

Prior Board/Committee Action

None.

RECOMMENDED ACTION(S)

1. Approve the plans and specifications for the audio/visual systems upgrades.
2. Accept the Western Audio Visual bid of September 14, 2016.
3. Approve and award the public works contract to Western Audio Visual in the amount of \$512,296.52.
4. Authorize a 10% (\$51,296) allowance for contingency.

Impact to Cities/County

Not Applicable.

Fiscal Impact

Funding is included in the FY 2016/17 General Fund.

Background

The OCFA utilizes AV equipment and systems in the boardroom, board breakout room, and four additional classrooms at the RFOTC. These systems include microphones, sound amplifiers, speakers, video cameras, computers, projectors, screens, and associated wiring and power systems. The current systems were installed during the construction of the RFOTC in 2004, and are now obsolete and failing. A rough order of magnitude budget of \$1,000,000 was established for the project that included hiring a firm through the RFP process with the expertise to develop the plans, prepare the bid documents, and manage the construction contractor and installation of the new AV equipment and systems in all the identified locations.

OCFA contracted with TK1SC on September 15, 2015, the top ranking firm in the RFP process, to develop the plans and specifications for the A/V systems upgrade project for a not-to-exceed amount of \$79,450.

On August 8, 2016, an Invitation for Bid (IFB) was issued and 112 vendors were notified electronically via the PlanetBids notification to participate in the formal public works bid. The project was also advertised in the Orange County Register (August 11, 2016, and August 18, 2016). Ten contractors attended the mandatory job-walk held on September 7, 2016. The bid included plans and specifications with all required modifications needed to upgrade A/V systems.

On September 14, 2016, the bid due date, bids were received from the following contractors:

- | | |
|----------------------------------|--------------|
| 1. Western Audio Visual | \$512,296.52 |
| 2. IES Communications | \$534,539.31 |
| 3. Audio Associates of San Diego | \$636,652.00 |
| 4. Digital Networks Group Inc. | \$676,767.95 |

Additional research was completed by OCFA staff and TK1SC to confirm responsiveness of the bid and qualifications of the apparent low-bidder, Western Audio Visual. On September 19, 2016, a meeting was conducted with Western Audio Visual, TK1SC, and OCFA staff to confirm specifications and the scope of work provided in the bid submittal.

As a result of the additional research and meeting, Western Audio Visual's qualifications for this project were confirmed and its bid was accepted.

Based on the results of the IFB, staff is recommending contract award to Western Audio Visual as the lowest responsive responsible bidder based on base bid in the amount of \$512,296.52. Staff is requesting a contingency fund of 10% (\$51,296) for any incidentals that may arise during construction for a total not to exceed amount of \$563,592. This amount is still well under the budgeted amount of \$1,000,000 for completing this project. The contingency funds would be used only for emergency repairs or modifications to the facilities that are necessary to complete the project that weren't discoverable until after the construction phase began. Completing this project on time is critical due to the regular meetings that are held in the boardroom and additional classrooms. Any use of contingency funds for emergency purposes, unforeseen conditions affecting construction schedule of owner directed changes will be brought back to the Board at the next available meeting time in an effort to keep the Board apprised of project status.

Attachment(s)

1. Contract with Western Audio Visual
2. Plans and Specs (on file in the Office of the Clerk)
3. Detailed Labor and Fee Breakdown

**ORANGE COUNTY FIRE AUTHORITY
CONSTRUCTION CONTRACT**

Per Bid R02155

THIS CONTRACT is made and entered into, to be effective, this ____ day of October 2016, by and between Western Audio Visual., hereinafter referred to as "Contractor," and the Orange County Fire Authority, hereinafter referred to as "Authority."

SECTION 1 - GENERAL CONDITIONS

Contractor certifies and agrees that all the terms, conditions, and obligations of the Contract Documents as defined therein, the location of the project site, and the conditions under which the work is to be performed, have been thoroughly reviewed and enters into this Contract based upon Contractor's investigation of all such matters and is in no way relying upon any opinions or representations of Authority. It is agreed that this Contract and the attached exhibits (collectively "Contract Documents") represent the entire agreement. It is further agreed that the Contract Documents including the General Conditions, Scope of Work, Notice Inviting Bids, Special Instructions to Bidders, if any, and Contractor's Bid, and any revision, amendment, or addenda thereto, shall be deemed a part of such Contract Documents, and the Contractor and its subcontractors, if any, will be and are bound by any and all of the Contract Documents insofar as they relate in any part or in any way, directly or indirectly, to the work covered by this Contract. Contractor further certifies and agrees that the work described in the Contract Documents will be performed, installed, constructed, and completed in a professional and expert manner and that all such work will be completed on time and within budget.

SECTION 2 - MATERIALS AND LABOR

Contractor shall furnish, under the conditions expressed in the Contract Documents, at Contractor's own expense, all labor and materials necessary, except such as are mentioned in the Specifications to be furnished by the Authority, to construct and complete the Project, in good workmanlike and substantial order. If Contractor fails to pay for labor or materials when due, Authority may settle such claims by making demand upon the surety to this Agreement. In the event of the failure or refusal of the surety to satisfy said claims, Authority may settle them directly and deduct the amount of payments from the Contract price and any amounts due to Contractor. In the event Authority receives a stop notice from any laborer or material supplier alleging nonpayment by Contractor, Authority shall be entitled to deduct all of its costs and expenses incurred relating thereto, including but not limited to administrative and legal fees.

SECTION 3 - CONTRACT PRICE AND METHOD OF PAYMENT

Authority agrees to pay and the Contractor agrees to accept as full consideration for the faithful performance of this Contract, subject to any subsequent additions or deductions as provided in approved change orders, the sum of five hundred twelve thousand, two hundred ninety-six dollars and fifty-two cents (\$512,296.52) as shown on Exhibit A.

Within thirty (30) days from the commencement of work, there shall be paid to the Contractor a sum equal to ninety percent (95%) of the value of the actual work completed plus a like percentage of the value of material suitably stored at the worksite or approved storage yards subject to or under the control of the Authority, since the commencement of the work as determined by the Authority. Thereafter, on a schedule issued by the Authority at the commencement of the job which shows a minimum of one payment made to the Contractor per month for each successive month as the work progresses and the request for payment due dates from the Contractor to meet the payment schedule, the Contractor shall be paid such sum as will bring the total payments received since the commencement of the work up to ninety percent (90%) of the value of the work completed since the commencement of work as determined by the Authority, less all previous payments, provided that the Contractor submits the request for payment prior to the end of the day required to meet the payment schedule. The Authority will retain five percent (5%) of the amount of each such progress estimate and material cost until the Final Payment.

Payments shall be made on demands drawn in the manner required by law, accompanied by a certificate signed by the Authority's Contract Manager, stating that the work for which payment is demanded has been performed in accordance with the terms of the Contract, and that the amount stated in the certificate is due under the terms of the Contract. Partial payments on the Contract price shall not be considered as an acceptance of any part of the work.

SECTION 4 – TIME OF COMMENCEMENT AND COMPLETION

Contractor agrees to commence the Project within 15 calendar days from the date of execution of this Agreement and shall diligently prosecute the work to completion as provided for in the Contract Documents, excluding delays caused or authorized by the Authority as set forth in Contract Documents.

Time is of the essence of this Contract. As required by the Contract Documents, Contractor shall prepare and obtain approval of all shop drawings, details, and samples, and do all other things necessary and incidental to the prosecution of Contractor's work in conformance with an approved construction schedule. Contractor shall coordinate the work covered by this Contract with that of all other Contractors, subcontractors and of the Authority, if any, in a manner that will facilitate the efficient completion of the entire work in accordance with the Contract Documents. Authority shall have the right to assert complete control of the premises on which the work is to be performed and shall have the right to decide the time or order in which the various portions of the work shall be installed or the priority of the work of other subcontractors, and, in general, all matters representing the timely and orderly conduct of the work of Contractor on the premises.

SECTION 5 – LIQUIDATED DAMAGES FOR DELAY

The parties agree that if the total work called for under this Contract, in all parts and requirements, is not completed within the time specified in Section 4 plus any allowance made for delays or extensions authorized under the Contract Documents, the Authority will sustain damage which would be extremely difficult and impracticable to ascertain. The parties therefore agree that Contractor will pay to Authority the sum of One Thousand Dollars (\$1,000.00) per day, as liquidated damages, and not as a penalty, for each and every calendar day during which completion of the Project is so delayed. Contractor agrees to pay such liquidated damages and further agrees that Authority may offset the amount of liquidated damages from any monies due or that may become due Contractor under this Contract.

SECTION 6 – COMPLETION

Within 10 days after the contract completion date of the Project, Contractor shall file with the Project Manager its affidavit stating that all workers and persons employed, all firms supplying materials, and all subcontractors upon the Project have been paid in full, and that there are no claims outstanding against the Project for either labor or material, except those certain items, if any, to be set forth in an affidavit covering disputed claims, or items in connection with Stop Notices which have been filed under the provisions of the statutes of the State of California. The Project Manager may require affidavits or certificates of payment and/or releases from any subcontractor, laborer or material supplier.

Upon receipt of Contractor's affidavit, the Project Manager shall prepare appropriate documentation setting forth the particular details of the completed project, including but not limited to, description and amount of all change orders, the final amounts of the contract, as amended, the time and dates of the total agreement and the identification of any unresolved claims or disputes. If necessary, Project Manager shall submit the project and the agreements to the Board of Directors for acceptance of the job as complete.

SECTION 7 – SURETY BONDS

General Requirements

To the extent required under Civil Code section 9550, the Contractor shall furnish, prior to the signing the Agreement, and maintain thereafter, a payment bond in the amount of 100 percent of the contract price including all applicable sales taxes. The bond shall be first approved by the office of the Counsel of the Authority. Such bonds shall be in substantially the form provided in the Contract Documents and issued

by a surety authorized by the State Insurance Commissioner to do business in California, and have and maintain, throughout the life of the project, at least an A- policyholder's rating, or better, and a financial rating of Class VII, or better, in accordance with the most current A.M. Best's Rating Guide.

Unacceptable Surety

If any surety upon any bond furnished in connection with the Contract Documents becomes unacceptable to the Authority, or if any such surety fails to furnish reports as to its financial condition from time to time as requested by the Project Manager, the Contractor shall promptly furnish such additional security as may be required by the Project Manager or the Board of Directors from time to time to protect the interests of the Authority and of persons supplying labor materials in the prosecution of the work contemplated by this Contract.

SECTION 8 – INSURANCE

Contractor is also aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation. Contractor and all subcontractors shall carry workers' compensation insurance for the protection of its employees during the progress of the work. The insurer shall waive its rights of subrogation against Authority, its officers, agents, and employees and shall issue an endorsement certificate to the policy evidencing same.

Contractor shall at all times carry, on all operations hereunder, bodily injury, including death and property damage liability insurance, including automotive operations, bodily injury and property damage coverage; and builders' all risk insurance. All insurance coverage shall be in amounts specified by Authority in the Insurance Requirements and shall be evidenced by the issuance of a certificate in a form prescribed by the Authority and shall be underwritten by insurance companies satisfactory to Authority for all operations, subcontract work, contractual obligations, product or completed operations, all owned vehicles and non-owned vehicles. Said insurance coverage obtained by the Contractor, excepting workers' compensation coverage, shall name the Authority, its Directors, Officers, Agents, Employees, Project Manager, and Consultants for this Contract, and all public agencies from whom permits will be obtained and their Directors, Officers, Agents, and Employees, as determined by the Authority, as additional insured on said policies.

Before Contractor performs any work at, or prepares or delivers materials to, the site of construction, Contractor shall furnish certificates of insurance evidencing the foregoing insurance coverage and such certificates shall provide the name and policy number of each carrier and policy and that the insurance is in force and will not be canceled without thirty (30) days written notice to Authority.

Contractor shall maintain all of the foregoing insurance coverage in force until the work under this Contract is fully completed and accepted by Authority. The requirement for carrying the foregoing insurance shall not derogate from the provisions for indemnification of Authority by Contractor under this Contract. Notwithstanding nor diminishing the obligations of Contractor with respect to the foregoing, Contractor shall subscribe for and maintain in full force and effect during the life of this Contract, the following insurance in amounts not less than the amounts specified and issued by a company admitted in California and having an A.M. Best's Guide Rating of "A-" Class VII or better: However, Authority will accept State Compensation Insurance Fund, for the required policy of Worker's Compensation subject to Authority's option to require a change in insurer in the event the State Fund financial rating is decreased below "B".

Workers' Compensation	Minimum of \$1,000,000 - In Accordance with the Workers' Compensation Act of the State of California.
Public Liability, in the form of either Comprehensive General Liability or Commercial General Liability written on a per-occurrence basis	\$1,000,000 Combined Single Limit, per occurrence for bodily injury, death, and property damage; OR \$ 500,000 per occurrence, with

	\$1,000,000 aggregate for bodily injury, death, and property damage; OR \$1,000,000 aggregate, separate for this project for bodily injury, death and property damage.
Automobile Liability, including non-owned and hired vehicles	\$1,000,000 combined single limit per occurrence.

Authority or its representatives shall at all times have the right to inspect and receive the original or a certified copy of all said policies of insurance, including certificates. Contractor shall pay the premiums on the insurance hereinabove required.

SECTION 9 – RISK AND INDEMNIFICATION

All work covered by this Contract done at the site of construction or in preparing or delivering materials to the site shall be at the risk of Contractor alone. Contractor agrees to save, indemnify and keep Authority, its Directors, Officers, Agents, Employees, Project Manager, and Consultants for this contract, and all public agencies from whom permits will be obtained and their Directors, Officers, Agents and Employees harmless against any and all liability, claims, judgments, costs and demands, including demands arising from injuries or death of persons (Contractor's employees included) and damage to property, arising directly or indirectly out of the obligations herein undertaken or out of the operations conducted by Contractor, save and except claims or litigation arising through the sole negligence or sole willful misconduct of Authority, and will make good to and reimburse Authority for any expenditures, including reasonable attorneys' fees Authority may incur by reason of such matters, and if requested by Authority, will defend any such suits at the sole cost and expense of Contractor.

In the event Contractor or its insurer refuses or fails to provide a legal defense to Authority after receiving written notice of the legal action and a tender and demand for defense, Authority shall have the right to select counsel of its own choice to represent all the interests of the Authority. Contractor agrees that the amount of legal costs and expenses, including attorneys' fees, may be withheld by Authority from any contract amounts due and owing to Contractor until such time as a final determination is made as to the responsibility for payment of said fees and costs.

SECTION 11 – CONTRACT DOCUMENTS

For the purposes of this Agreement the "Contract Documents are the items listed below. The Contract Documents are hereby incorporated into this Agreement and made a part thereof by this reference.

- 1) OCFA Invitation for Bid RO2155
- 2) Orange County Fire Authority General Conditions
- 3) Drawings and Specifications for Audio/Visual Systems Upgrade at RFOTC (Produced by TK1SC Inc. and approved by OCFA)
- 4) Contractor Bid responding to RO2155 of September 14, 2016
- 5) Contractor Bid Bond dated September 13, 2016
- 6) Contractor Performance Bond
- 7) Contractor Labor and Materials Payment Bond
- 8) Designation of Subcontractors
- 9) Non-Collusion Affidavit
- 10) Site Visit Certification September 13, 2016
- 11) Contractor Certification of Worker's Compensation
- 12) Contractor Certification of Non-Discrimination by Contractors
- 13) Contractor Debarment and Suspension Certification
- 14) Designator of Sureties

- 15) Prevailing Wage Certification
- 16) Addenda to RO2155, Numbers 1 and 2
- 17) Supplemental Agreements amending or extending the Work contemplated and which may be required to complete the Work in a substantial and acceptable manner

SECTION 12 – MISCELLANEOUS PROVISIONS

Compliance with Labor Code and Public Contract Code. Authority is subject to the provisions of law relating to prevailing wages, labor law generally, and public contracts in the State of California. It is agreed that all provisions of law applicable to public contracts are a part of this contract to the same extent as though set forth herein, and will be complied with by the Contractor.

No contractor or subcontractor may be listed on a proposal for a public works unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded or perform a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. Contractor shall not pay less than the prevailing wage. It shall be the responsibility of the Contractor to obtain the prevailing wage rates from the Director of Industrial Relations directly.

Independent Contractor. Neither Authority nor any of its employees shall have any control over the manner, mode or means by which Contractor, its agents or employees, perform the services required herein, except as otherwise set forth herein. Contractor shall perform all services required herein as an independent contractor of Authority and shall remain at all times as to Authority a wholly independent contractor with only such obligations as are consistent with that role. Contractor shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of Authority.

Assignment. Contractor shall neither delegate its duties or obligations, nor assign its rights with respect to this Contract, either in whole or in part. Any such attempted delegation and/or assignment shall be void and deemed void at such occurrence, if it were to occur.

Computation of Time. When any period of time is referred to in these Contract Documents by days, it shall be computed to exclude the first and include the last day of the period, provided, however, that if the last day of the period falls on a Saturday, Sunday, or legal holiday, that day shall be omitted from the computation.

Interest. Any monies not paid when due to either party under this Contract shall bear interest at the rate of ten (10%) percent per annum, commencing on the forty-sixth (46th) day after demand for payment thereof after such monies are lawfully due and payable, except as otherwise provided in these Contract Documents.

Remedies Cumulative. No remedy herein reserved to Authority is intended to be exclusive of any other remedy, but each and every such remedy shall be cumulative and shall be in addition to any other given in the Contract as now or hereafter existing or at law, equity, or by statute.

Non-waiver. The failure of the Authority to notify the Contractor of any default under this Contract shall not be deemed to be a waiver by Authority of any continuing default by Contractor of any term, covenant, or condition set forth in this Contract, nor of the Authority's right to declare a default for any such continuing breach, and the failure of Authority to insist upon strict performance of any of the terms, covenants, or conditions of the Contract, or to exercise any option in the Contract in any one or more instances, shall not be construed as a waiver or relinquishment of any such terms, covenants, conditions or options, but the same shall be and remain in full force and effect.

Severability. In case any one or more provisions set forth in the Contract shall for any reason be held invalid, illegal, or unenforceable in any respect, any such invalidity, illegality, or unenforceability shall not affect any other provision of the Contract, and this Contract shall be construed as if such invalid, illegal, or

unenforceable provision had never been incorporated therein so long as the deletion of such provision does not, in the Authority's judgment, materially alter this Contract.

No Third Party Beneficiaries. This Contract are not intended and shall not be deemed or construed, to confer any rights, powers, or privileges on any person, firm, partnership, corporation, or other entity not a party to this Contract except as may be expressly provided in the Contract to the contrary.

Oral Agreements. No oral order, objection, claim, or notice by any party to the other shall affect or modify any of the terms or obligations contained in this Contract, and none of the provisions of the Contract shall be held to be waived or modified by reason of any act whatsoever, other than by a definitely agreed waiver or Modification in writing and executed in the manner required in this Contract by authorized officers or representatives of the Parties. No evidence shall be introduced in any proceeding of any other waiver or modification.

Counterparts. This Contract may be executed in any number of counterparts, and each of such counterparts for all purposes shall be deemed to be an original, and all of such counterparts should constitute one and the same agreement.

Governing Law. The Contract, including the Contract Documents, shall be governed by the laws of the State of California.

Attorneys' Fees. If either party commences an action against the other party arising out of or in connection with this Agreement or its subject matter, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs of suit from the losing party.

Services Prior to Execution. Notwithstanding the fact that this Contract is executed as of the date first set forth above, the Parties recognize that a portion of the Work required under the Contract may have been performed prior to such date, all of which Work shall be governed by the terms and conditions of this Contract and shall be deemed to be a part of the Work. Without limiting the foregoing, all of Contractor's liabilities and obligations to Authority shall apply to all Work and services provided by the Contractor for the Work prior hereto, notwithstanding the fact that the Work may have been performed prior to the date hereof pursuant to prior negotiations, representations, agreements, understandings, or otherwise.

Survival of Rights. Any indemnity, warranty, guarantee given by the Contractor to the Authority under this Contract shall survive the expiration or termination of this Contract and shall be binding upon Contractor until any action under this Contract is barred by the applicable statute of limitations.

SIGNATURES ON FOLLOWING PAGE

IN WITNESS WHEREOF, the parties hereto have executed this Construction Agreement as of the date first hereinabove written.

"OCFA"

ORANGE COUNTY FIRE AUTHORITY

Date: _____

By: _____

Jeff Bowman, Fire Chief

APPROVED AS TO FORM.

ATTEST:

By: 
DAVID E. KENDIG
GENERAL COUNSEL


Sherry A.F. Wentz
Clerk of the Board

Date: 10/12/16

"FIRM"

WESTERN AUDIO VISUAL

Date: 9/27/16

By: 
Catherine Schellin, President
DIR# 1000008082 Expires 06/30/2016
Contractor's State License No. 871609
(Expiration Date 1/31/2018)



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 3D
Consent Calendar

Subcontractor Insurance Requirements

Contact(s) for Further Information

Lori Zeller, Assistant Chief Business Services Department	lorizeller@ocfa.org	714.573.6020
Debbie Casper, Purchasing Manager	debbiecasper@ocfa.org	714.573.6641

Summary

This item is submitted to obtain guidance regarding implementation of subcontractor insurance requirements in future contracts awarded by OCFA.

Prior Board/Committee Action(s)

Budget and Finance Committee's Recommendation: *APPROVE*

At the September 22, 2016, meeting of the City Manager Technical Advisory Committee (TAC), staff reviewed this proposed agenda item for input and guidance from the City Managers prior to presenting the item to the Budget and Finance Committee. Following the discussion, the TAC voted in support (with one abstention) of staff's proposed Option 1 below.

At its regular October 12, 2016, meeting, the Budget and Finance Committee reviewed and unanimously recommended approval of Option 1.

RECOMMENDED ACTION(S)

Direct staff to proceed in issuance of future contracts in accordance with staff's recommended Option 1 below.

- Option 1: Ensure that future contracts awarded by OCFA include a requirement that any subcontractors must possess insurance that names OCFA as an additional insured. Place responsibility on the primary contractor to verify that any subcontractors have obtained the required insurance, *or*
- Option 2: Ensure that future contracts awarded by OCFA include a requirement that any subcontractors must possess insurance that names OCFA as an additional insured. Place responsibility on OCFA staff to verify that any subcontractors have obtained this required insurance. Direct staff to return one quarter after implementation and report on impact to staff workload and need for additional staff, if any.

Impact to Cities/County

Not applicable.

Fiscal Impact

For both Options 1 and 2 listed above, the additional cost of insurance for subcontractors to name OCFA as additional insured may be passed through to OCFA in the prices that are bid for future OCFA work. Option 2 would require significant added staff time/burden and would likely require an additional employee to coordinate and monitor insurance certificates from subcontractors.

Background

At the May 26, 2016, Executive Committee meeting, while considering a contract award for Pre-employment and Internal Affairs Investigative Services, Director Gamble suggested that the contract should be modified as it pertained to use of subcontractors to require the subcontractors to provide verification of insurance, naming OCFA as an additional insured. The Executive Committee supported the concept and directed staff to make the suggested modification for the contract in question, as well as future OCFA contracts. Following the Executive Committee's direction to require that subcontractors provide verification of insurance naming OCFA as an additional insured for future contracts, staff and General Counsel engaged in more dialogue with Director Gamble regarding the steps for implementation.

Staff and General Counsel had initially amended the specific investigator contract in question to place responsibility on the primary contractor to verify that subcontractors have obtained the required insurance naming OCFA as additional insured (Attachment 1). Following review with Director Gamble, the investigator contract was further amended to place the responsibility on OCFA staff instead of the primary contractor, for verifying subcontractor insurance. Further, Director Gamble described additional requirements that she believes OCFA should perform. Collectively, the process suggested would include:

1. OCFA's Request for Proposals and contracts should include provisions that require any subcontractors to provide verification of insurance, naming OCFA as an additional insured.
2. OCFA staff is responsible for obtaining and verifying the required subcontractor insurance in all OCFA awarded contracts.
3. All invoices submitted by the primary contractor should list each subcontractor that performed work for the period/milestones covered in that invoice.
4. Finance staff should verify that OCFA has current insurance certificates on file for each subcontractor listed on each invoice prior to paying the invoice.

Staff has implemented requirement #1 listed above, and is now seeking guidance on the additional requirements #2 through #4. ***The primary question surrounds whom to make responsible for verifying subcontractor insurance, the primary contractor or OCFA staff?*** Staff has contacted other agencies to determine the industry standard and concluded that the common practice is to place responsibility on the primary/general contractor for verifying insurance from its subcontractors (Attachment 2).

With the volume of contracts issued by OCFA, each of which results in multiple invoices over the period of performance, the added burden associated with requirements #2 through #4 above would be significant. Staff believes that an additional employee would be necessary to handle the volume of insurance monitoring that would be required.

OCFA has never experienced a situation requiring a claim directly against a subcontractor. That said, we understand that just because it has never happened does not mean it never will; however, the benefit/reward of the added workload burden should be evaluated against the risk exposure by not pursuing these added requirements. Staff is suggesting that we should minimize OCFA's risk exposure by requiring subcontractor insurance, but do so by placing the responsibility to collect and verify the insurance on the primary/General contractor.

Attachment(s)

1. Professional Services Agreement Standard Template Language Recommended by General Counsel – Subcontractor Insurance
2. Survey Feedback – Other City Requirements for Subcontractor Insurance

**Professional Services Agreement
Standard Template Language – Subcontractor Insurance**

Here are the updated contract templates. Please note the changes made to Section 6.1 regarding subcontractor insurance and required endorsements. I also made a minor change to Section 6.2, adding “subcontractors” to the list of persons whose negligence Contractor’s indemnification applies.

6. INSURANCE, INDEMNIFICATION AND BONDS

6.1 Insurance.

Firm shall procure and maintain, at its cost, and submit concurrently with its execution of this Agreement, public liability and property damage insurance against all claims for injuries against persons or damages to property resulting from Firm’s performance under this Agreement. All policies of public liability and property damage insurance shall be primary and any other insurance, deductible, or self-insurance maintained by OCFA, its officials, officers, employees, agents or volunteers, shall not contribute with this primary insurance. Policies shall contain or be endorsed to contain such provisions. Firm shall also carry workers’ compensation insurance in accordance with California worker’s compensation laws. Firm agrees to waive and obtain endorsements from its workers’ compensation insurer waiving all subrogation rights under its workers’ compensation insurance policy against the OCFA, its officials, officers, employees, agents and volunteers, and require each of its subcontractors, if any, and each subcontractor’s insurer, to do likewise under their workers’ compensation insurance policies. All required insurance shall be kept in effect during the term of this Agreement and shall not be cancelable without thirty (30) days written notice to OCFA of any proposed cancellation. OCFA’s certificate evidencing the foregoing and designating OCFA, its officials, officers, employees, agents and volunteers as additional named insureds shall be delivered to and approved by OCFA prior to commencement of the services hereunder. The procuring of such insurance and the delivery of policies or certificates evidencing the same shall not be construed as a limitation of Firm’s obligation to indemnify OCFA, its Firms, officers and employees. The amount of insurance required hereunder shall include comprehensive general liability, personal injury and automobile liability with limits of at least one million dollars (\$1,000,000) combined single limit coverage per occurrence and professional liability coverage with limits of at least one million dollars (\$1,000,000). Coverage shall be provided by admitted insurers with an A.M. Best’s Key Rating of at least A-VII. If Firm provides claims made professional liability insurance, Firm shall also agree in writing either (1) to purchase tail insurance in the amount required by this Agreement to cover claims made within three years of the completion of Firm’s services under this Agreement, or (2) to maintain professional liability insurance coverage with the same carrier in the amount required by this Agreement for at least three years after completion of Firm’s services under this Agreement. The Firm shall also be required to provide evidence to OCFA of the purchase of the required tail insurance or continuation of the professional liability policy.

In addition, Firm shall be responsible for causing any subcontractor providing work or services under this Agreement to procure and maintain the same types and amounts of insurance, and in compliance with the terms set forth in this Section, including but not limited to adding the OCFA, its officials, officers, employees, agents and volunteers as additional named insureds to their respective policies. Firm shall not allow any subcontractor to commence any work or services relating to this Agreement unless and until it has provided evidence satisfactory

**Professional Services Agreement
Standard Template Language – Subcontractor Insurance**

to OCFA that the subcontractor has secured all insurance required under this Section. Firm agrees to monitor and review all such coverage and assumes all responsibility for ensuring that each subcontractor's insurance coverage is provided and maintained in conformity with the requirements of this Section.

6.2 Indemnification.

The Firm shall defend, indemnify and hold harmless OCFA, its officers and employees, from and against any and all actions, suits, proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorneys' fees, for injury to or death of person or persons, for damage to property, including property owned by OCFA, and for errors and omissions committed by Firm, its officers, employees, **subcontractors or agents**, arising out of or related to Firm's performance under this Agreement, except for such loss as may be caused by OCFA's own negligence or that of its officers or employees.

**Orange County Fire Authority
Survey Feedback - Other Orange County Agencies**

Agency	Question 1: Does your agency require the prime contractor to provide a copy of each subcontractors insurance certificate to your agency for review and approval prior to the sub being allowed to perform any work; or	Question 2: Is it the vendor/prime contractor's responsibility to ensure their subs insurance is compliant with your agencies requirements?
City of San Clemente	The City of San Clemente does not review, approve, nor track insurance for sub-contractors.	We rely on vendor/primary contractor.
City of Brea	In Brea, it is the contractor's responsibility to make certain that their subs are covered.	We have a contract with the primary only. They are responsible.
City of Santa Ana	No	Yes. It has been the City's practice, mostly this applies to our Public Works projects, prime contractor is responsible for all aspects of performance and compliance under the contract, including that of any subs. In their bid response the prime must disclose any and all subs to be used. Prior to any work commencing, all documentation (insurance certs, DIR, etc.) for all listed (in bid response) as performing said work must be in order. The insurance compliance is handled by the prime.
Orange County Sanitation District	No	We put the responsibility on the Prime. In our bid docs we state that they need to fill out an Acknowledgment of Insurance form and it is to be completed by the Awarded Prime only. Listed on that form is a section regarding subcontractors which states: 17. SUBCONTRACTOR(S): The Vendor shall be responsible to establish insurance requirements for any subcontractor hired by the Vendor. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the subcontractor's operations and work.
City of Orange	No	Yes
City of Garden Grove	No. We used to collect them but when they are using several subs it becomes a lot of work and contracts weren't moving.	Here at Garden Grove we put language into our contracts that puts the responsibility on the General Contractor. Here is the language that we use in our contracts: Subcontractors shall provide the same insurance as required herein of CONTRACTOR, and shall not commence work until all certificates and endorsements have been received and approved. CONTRACTOR shall be responsible to collect and maintain all insurance from Subcontractors, and shall provide the insurance to the CITY upon request.
John Wayne Airport	For the most part the County reserves the right but each contract can be handled independently and variations would require a waiver.	Excerpt from insurance requirements for Public Works contracts: Contractor shall ensure that all subcontractors performing work on behalf of Contractor pursuant to this agreement shall be covered under Contractor's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for Contractor. Contractor shall not allow subcontractors to work if subcontractors have less than the level of coverage required by County from Contractor under this agreement. It is the obligation of Contractor to provide notice of the insurance requirements to every subcontractor and to receive proof of insurance prior to allowing any subcontractor to begin work. Such proof of insurance must be maintained by Contractor through the entirety of this agreement for inspection by County representative(s) at any reasonable time.

**Orange County Fire Authority
Survey Feedback - Other Orange County Agencies**

Agency	Question 1: Does your agency require the prime contractor to provide a copy of each subcontractors insurance certificate to your agency for review and approval prior to the sub being allowed to perform any work; or	Question 2: Is it the vendor/prime contractor's responsibility to ensure their subs insurance is compliant with your agencies requirements?
Orange County Transportation Authority	We do not ask for a copy of the subs certificates, only receive certificates from the prime contractors.	OCTA's contract requires that the prime contractor flow down the same insurance requirements to the subs. The prime is responsible for ensuring the subs have the proper insurance.
City of Anaheim	Purchasing does not require the prime contractor to provide a copy of the subcontractor's insurance certificates showing proof that the sub meets our insurance requirements.	The T&Cs from our purchase orders (attached) and the T&Cs from our RFBs (excerpt below) do not specifically state that subs are required to provide insurance either (see Insurance and Additional Insurance Requirements). However, the Hold Harmless and Indemnification clauses in both the PO and the RFB T&Cs have the "arising out of vendor's (including vendor's employees, representatives, products and subcontractors) performance." Of course, the HH&I do not equal additional insurance, but it does help to cover us via the prime contractor.
City of Newport Beach	No	The way our contracts are worded shifts the onus onto the Vendor or Prime. Our CIP formal contract language has the following: "The subcontractors authorized by City, if any, to perform the Work on this Project are identified in the Contractor's Proposal and are attached as part of the Contract Documents. Contractor shall be fully responsible to City for all acts and omissions of any subcontractors. Nothing in this Contract shall create any contractual relationship between City and subcontractor, nor shall it create any obligation on the part of City to pay or to see to the payment of any monies due to any such subcontractor other than as otherwise required by law. City is an intended beneficiary of any Work performed by the subcontractor for purposes of establishing a duty of care between the subcontractor and City. Except as specifically authorized herein, the Work to be performed under this Contract shall not be otherwise assigned, transferred, contracted or subcontracted out without the prior written approval of City" Also, in our standard Insurance Requirements: C. Right to Review Subcontracts. Contractor agrees that upon request, all agreements with subcontractors or others with whom Contractor enters into contracts with on behalf of City will be submitted to City for review. Failure of City to request copies of such agreements will not impose any liability on City, or its employees. Contractor shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Contractor shall ensure that City is an additional insured on insurance required from subcontractors. For CGL coverage, subcontractors shall provide coverage with a format at least as broad as CG 20 38 04 13.

**Orange County Fire Authority
Survey Feedback - Other Orange County Agencies**

Agency	Question 1: Does your agency require the prime contractor to provide a copy of each subcontractors insurance certificate to your agency for review and approval prior to the sub being allowed to perform any work; or	Question 2: Is it the vendor/prime contractor's responsibility to ensure their subs insurance is compliant with your agencies requirements?
City of Irvine	The City only receives and tracks our prime contractor's insurance documents	<p>It's our prime contractor's responsibility to ensure their subs insurance is compliant. Our contracts read:</p> <p>Without limiting Contractor's indemnification obligations, Contractor shall procure and maintain, at its sole cost and for the duration of this Agreement, insurance coverage as provided below, against all claims for injuries against persons or damages to property which may arise from or in connection with the performance of the work hereunder by Contractor, its agents, representatives, employees, and/or subcontractors. In the event that Contractor subcontracts any portion of the work in compliance with Section 1.8 of this Agreement, the contract between the Contractor and such subcontractor shall require the subcontractor to maintain the same policies of insurance that the contractor is required to maintain pursuant to this Section 2.1.</p>



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 5A
Discussion Calendar

**Final Financial Report for Construction of
Fire Station 56 (Sendero Ranch)**

Contact(s) for Further Information

Mike Schroeder, Assistant Chief (Presenter) michaelschroeder@ocfa.org 714.573.6008
Support Services Department

Patrick Bauer, Property Manager patrickbauer@ocfa.org 714.573.6471

Summary

This item reports the total project cost for the new construction of Fire Station 56, Sendero Ranch.

Prior Board/Committee Action(s)

At its July 23, 2015, meeting, the Board approved the actions tied to filing the Notice of Completion for Fire Station 56. At that time, staff informed the Board that a report of the total cost would be made available to the Board, as soon as all invoices were finalized.

RECOMMENDED ACTION(S)

Receive and file the report.

Impact to Cities/County

Fire Station 56 is in service.

Fiscal Impact

Station was completed on-time and under the total \$5.25 million budget. Final total costs were \$5,146,334.14, 2% or \$103,665.86 below budget. This project was OCFA's first use of the design build delivery method and proved to be timely and financially effective.

Background

On January 24, 2014, the Board of Directors awarded a public works construction contract with a value of five million dollars to Erickson-Hall Builders to design and build Fire Station 56. The contract value included all costs associated with the station project. The Board also authorized a contingency of two hundred fifty thousand dollars, 5% of the contract value for a total project budget of five million two hundred fifty thousand dollars. Construction began August 4, 2014, and proceeded through completion without difficulty. The Notice of Completion was recorded August 6, 2015. A Certificate of Occupancy was issued by the County of Orange on August 17, 2015, and the station was put into service on August 21, 2015. The project was completed with two OCFA directed change orders along with additional expenses incurred by the OCFA for Furniture, Fixtures, and Equipment (FFE) and other utility hookup fees.

A lesson learned for future projects is to identify a separate account to pay for FFE requirements along with identifying pre-construction costs and utility hookup fees in an additional account.

Change Order #1:

1. Technological Upgrade to the Station Alert System Total cost: \$70,133

Change Order #2 and FFE Costs:

1. Exterior Lighting Revision (in response to association requests)	\$33,444
2. Additional Station Signage	\$6,223
3. OCFA Expenses for FFE	<u>\$36,534</u>
	Total cost: \$76,201

Total Change Value: \$146,334

The total project budget breakdown is as follows:

Base Contract:	\$5,000,000
Contingency	\$250,000
Total Budget	\$5,250,000
Total Change Value	\$146,334
Final Cost	\$5,146,334
Percentage Change	2.0%

Attachment(s)

None.



REVISED 10/26/16

Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 5A
Discussion Calendar

**Final Financial Report for Construction of
Fire Station 56 (Sendero Ranch)**

Contact(s) for Further Information

Mike Schroeder, Assistant Chief (Presenter) michaelschroeder@ocfa.org 714.573.6008
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Patrick Bauer, Property Manager patrickbauer@ocfa.org 714.573.6471

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The project was completed with two OCFA directed change orders along with additional expenses incurred by the OCFA for Furniture, Fixtures, and Equipment (FFE) and other utility hookup fees.

Several Lessons were learned:

1. The 5% Contingency authorized by the Board of Directors was used for non-emergency changes to the project contrary to the purpose stated for the Contingency funding request. See Change Order #1 and #2 below.

2. Future projects should identify ~~A lesson learned for future projects is to identify~~ a separate account to pay for FFE (Furniture, Fixtures and Equipment) requirements.

3. Future projects should ~~along with~~ identifying pre-construction costs and utility hookup fees in a ~~separately identified n-additional~~ account.

4. Future projects should mandate any contingency used for ~~c~~Construction related additional costs or change orders be brought backforward to the Board of Directors in an effort to keep the board apprised of project status.

Change Order #1:

1. Technological Upgrade to the Station Alert System Total cost: \$70,133

Change Order #2 and FFE Costs:

1. Exterior Lighting Revision (in response to association requests)	\$33,444
2. Additional Station Signage	\$6,223
3. OCFA Expenses for FFE	<u>\$36,534</u>
	Total cost: \$76,201

Total Change Value: \$146,334

The total project budget breakdown is as follows:

Base Contract:	\$5,000,000
Contingency	\$250,000
Total Budget	\$5,250,000
Total Change Value	\$146,334
Final Cost	\$5,146,334
Percentage Change	2.0%

Attachment(s)

None.



Orange County Fire Authority
AGENDA STAFF REPORT

Board of Directors Meeting
October 27, 2016

Agenda Item No. 5B
Discussion Calendar

**Progress Report for Phase-Two of Emergency Medical Services
Service Delivery Enhancements**

Contact(s) for Further Information

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Summary

This item is submitted to provide a progress report regarding the implementation of the Phase-Two service delivery enhancements. Phase-Two delivery is the second step in the “Proposed Emergency Medical Services (EMS) Service Delivery Enhancements” (as identified in the 180 –Day Plan and FY 2015/16 Domain Objectives) targeted for implementation in FY 2015/16.

Prior Board/Committee Action(s)

At the November 19, 2015, meeting, the Board voted unanimously to include funding for Phase-Two emergency medical services delivery enhancements in the proposed FY 2015/16 budget, and directed staff to continue to evaluate and recommend the phase-in of service enhancements, as feasible, at six-month intervals.

RECOMMENDED ACTION(S)

Receive and file the report.

Impact to Cities/County

Overall, these enhancements have improved service delivery by reducing Advanced Life Support (ALS) response times, reducing the number of responding units, increasing ALS unit availability and enhancing firefighter safety. Additionally, the need for automatic aid support from neighboring agencies has been reduced.

Fiscal Impact

The fiscal impact is solely related to additional paramedic specialty skill compensation with the conversion of six paramedic vans to twelve paramedic engines and the conversion of one paramedic assessment truck to a paramedic truck. These enhancements were implemented in the cities of Irvine, Lake Forest, Mission Viejo, and Santa Ana. No additional personnel were added in phase-two. The total cost for these enhancements was \$375,865.

Background

In his 180-Day Plan, Fire Chief Bowman identified the need to conduct a preliminary analysis of field operations. Several joint labor/management work groups were created to evaluate emergency service delivery, specialty services, such as hazardous materials response and urban search and rescue. The emergency service deployment work group brought forth the recommended enhancements.

One of the primary objectives identified by the work group was to reduce the number of units that respond to emergency incidents. The current service delivery model of the OCFA occurs in a variety of models. When a medical-related incident is dispatched, the configuration of the involved units determines how many units respond. If the unit is a four-person Paramedic Engine or Paramedic Truck, that single unit responds to the incident. If one of the units is a Basic Life Support Unit (BLS) or a Paramedic Assessment Unit (PAU), then a second paramedic unit is required to respond, thereby creating a two unit response. The need to have multiple units respond to a single incident has an impact on resource availability within the OCFA delivery area, as well as neighboring automatic aid agencies.

Phase-two enhancements were proposed for the cities of Irvine, Mission Viejo, Lake Forest, and Santa Ana. Based on statistical data, these jurisdictions were recognized as target areas where service delivery could be enhanced with minor alterations. The proposed service delivery enhancements came in two models. The first was the conversion of a truck from a four-firefighter paramedic assessment truck (one of whom is a paramedic) to a four-firefighter paramedic truck (two of whom are paramedics). The second was the conversion of six paramedic vans staffed with two firefighter paramedics. This conversion took the staffing from the six paramedic vans and equally distributed them to create twelve paramedic engines. These twelve paramedic engines were staffed with four firefighters. This staffing configuration allowed for a single unit response.

The desired outcome of these changes is measured by response data collected during the first six months of the phase-two enhancements (February 5, 2016, through August 4, 2016). The intent of the enhancements is to decrease the number of responding units, improve ALS response times, improve unit availability for simultaneous emergencies, enhance firefighter safety through quicker establishment of “2 In/2 Out,” pursuant to OSHA mandate, and to decrease the impact on neighboring jurisdictions as detailed in the attachment

Attachment(s)

Phase-Two Service Delivery Enhancement Summary

Service Delivery Enhancements – Phase 2: 6 Month Evaluation *Implemented in the Cities of Irvine, Mission Viejo, Lake Forest and Santa Ana*

Goals to improve service delivery:

- 1) Reduce Advance Life Support (ALS) response times**
- 2) Reduce the number of responding units**
- 3) Improve unit availability for simultaneous emergencies**
- 4) Decrease emergency response impact on neighboring jurisdictions into OCFA coverage area**
- 5) Enhance firefighter safety (2 in/2 out) capabilities**

Background:

As approved by the Board of Directors at the November 19, 2015, Board Meeting, OCFA implemented the Phase 2 Enhancement Program. This program consisted of:

- Decommission the following units from service
 - M4
 - M26
 - M31
 - M38
 - M77
 - M78
- Reconfigure the following units in service by adding 1 FF/PM per unit
 - From E4 to PME4
 - From E26 to PME26
 - From E28 to PME28
 - From E31 to PME31
 - From E38 to PME38
 - From E47 to PME47
 - From E54 to PME54
 - From E55 to PME55
 - From E70 to PME70
 - From T76 to PMT76*
 - From E77 to PME77
 - From E78 to PME78
 - From E79 to PME79

February 5, 2016 was the implementation of the trial period. The total cost of this enhancement is \$375,865. This process removed 6 paramedic vans from service and added 13 paramedic engines, providing a net gain of seven paramedic units.

**4 person Non-ALS Unit prior to Enhancements*

Analysis:

The comparative data is from the TriTech CAD System for the date range of August 5, 2015 to August 4, 2016. The date ranges for the comparison before implementation are August 5, 2015 to February 4, 2016 and February 5, 2016, to August 4, 2016 for the enhancement evaluation period. For the purpose of measuring service delivery, the units participating in Phase 2 of the ALS Service Delivery Enhancement and the affected adjacent units were analyzed. The effects of the enhancements to the agency as a whole are represented below. During the study the number of OCFA incidents remained steady, however, unit responses went down approximately 10%.

	8/5/2015-2/4/2016	2/5/2016-8/4/2016	Percent of Change
OCFA Incident Count	67,876	67,301	-1%
OCFA Unit Response Count	113,970	102,167	-10%

GOAL 1: Reduce Advance Life Support (ALS) Response Times

First ALS On-scene:

UNIT	Pre- Implementation 8/5/2015 to 2/4/2016	Post- Implementation 2/5/2016 to 8/4/2016
E4	0	630
E26	0	547
E28	0	453
E31	0	514
E38	0	425
E47	0	215
E54	0	344
E55	0	215
E70	0	593
E77	0	715
E78	0	756
E79	0	427
T76	0	564

The above chart demonstrates the number of times each respective unit was the first ALS unit on scene as compared to the period prior to Phase 2 enhancements. Four of the six highest measured arrivals were from engine companies that housed a paramedic van in their station prior to Phase 2 implementation. **E70 and T76 arrived on scene with ALS capability 593 and 564 more times respectively during the Phase 2 trial period compared to 0 times Pre-implementation.** The majority of E70 and T76 responses were into their first due response areas resulting in quicker ALS evaluation.

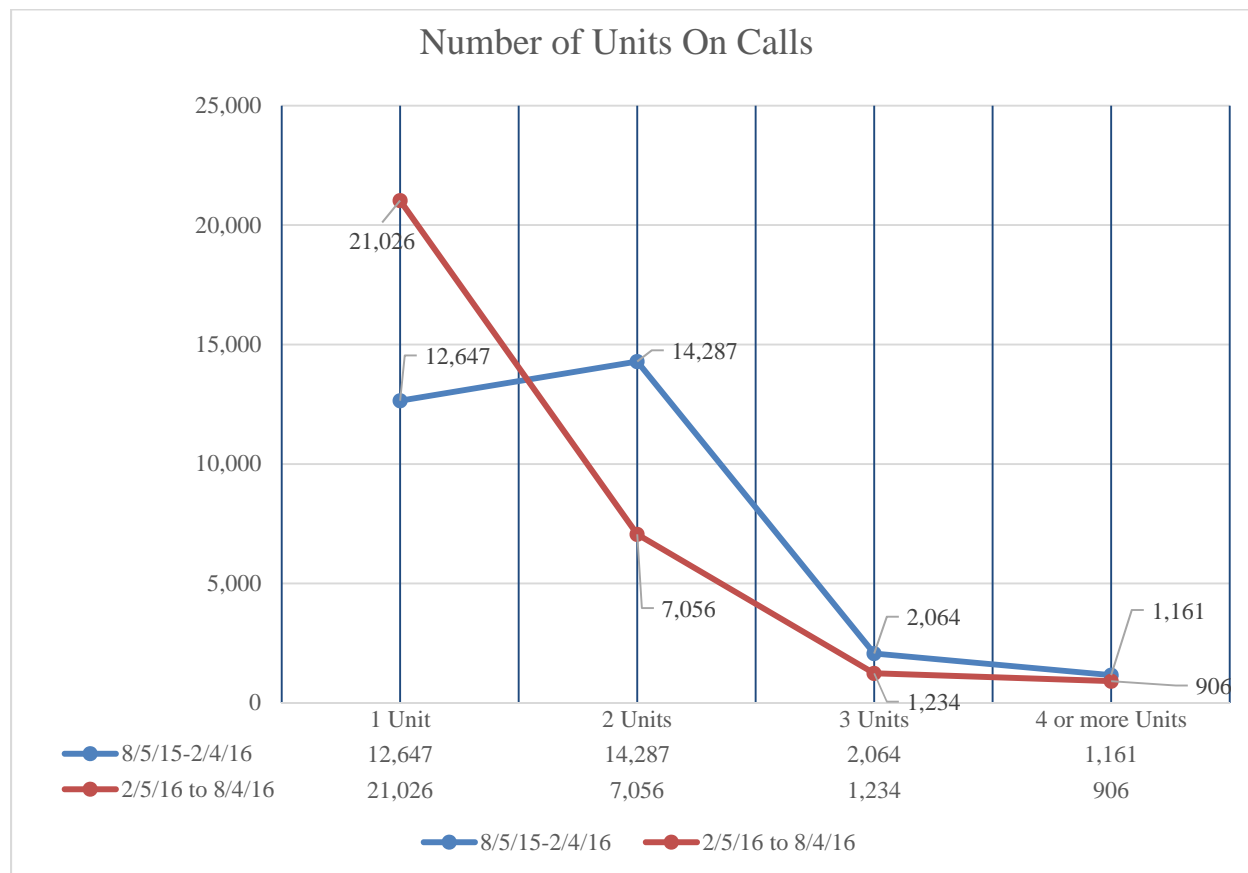
ALS Response Times:

	8/5/2015-2/4/2016			2/5/2016-8/4/2016	
	Average 1st Unit In	Average Delay for 2nd Unit	Average Total Response	Average Response Time	ALS Response change
E4	0:05:14	0:01:14	0:06:23	0:06:18	-1%
E26	0:05:22	0:01:40	0:06:58	0:06:20	-9%
E28	0:04:49	0:03:40	0:07:59	0:06:14	-22%
E31	0:05:58	0:03:28	0:09:10	0:06:37	-28%
E38	0:05:21	0:02:06	0:07:19	0:06:16	-14%
E47	0:05:23	0:02:54	0:07:21	0:05:58	-19%
E54	0:05:49	0:03:31	0:08:59	0:06:20	-29%
E55	0:05:47	0:03:13	0:08:47	0:06:38	-24%
E70	0:04:35	0:02:23	0:06:31	0:05:33	-15%
E77	0:04:40	0:03:15	0:07:41	0:04:55	-36%
E78	0:04:48	0:01:50	0:06:29	0:05:13	-20%
E79	0:04:26	0:02:25	0:06:28	0:05:26	-16%
T76	0:05:02	0:02:18	0:06:59	0:05:45	-18%
Total	0:05:05	0:02:31	0:07:19	0:05:52	-20%

The conversion of the units from BLS/PAU to PME/PMT reduced ALS response times. **The average ALS response time for the converted units reduced ALS response time by approximately one and a half minutes, or a 20% reduction.** As one of the objectives of the Phased EMS enhancements, this demonstrates that this objective was clearly met in the targeted areas. This is in addition to the number of units required for ALS response being reduced from two to one.

GOAL 2: Reduce the Number of Responding Units

Number of Units On-Call:



	8/5/15-2/4/16	2/5/16 to 8/4/16	Difference in Calls	Percent of Change
1 Unit	12,647	21,026	8,379	66%
2 Units	14,287	7,056	-7,231	-51%
3 Units	2,064	1,234	-830	-40%
4 or more Units	1,161	906	-255	-22%

One goal of the service delivery enhancements was to reduce the number of units on calls. The chart above shows that the number of incidents that required one unit to respond increased by 66%. **The increase of 66% percent is complimented by the reduction of 2, 3 and 4+ unit response incidents by 51%, 40% and 22% respectively.**

Unit Follow Ups to Hospital:

Unit	8/05/15 to 2/04/16			2/05/16 to 8/04/16		
	Calls	Transports	% Transports	Calls	Transports	% Transports
E4	1,045	23	2%	1,097	328	30%
E26	1,041	14	1%	985	245	25%
E28	1,007	6	1%	1,128	220	20%
E31	943	15	2%	1,027	89	9%
E38	769	14	2%	869	238	27%
E47	425	5	1%	481	135	28%
E54	635	8	1%	886	41	5%
E55	422	1	0%	449	130	29%
E70	1,149	12	1%	1,102	303	27%
E77	1,342	21	2%	1,326	385	29%
E78	1,357	19	1%	1,601	375	23%
E79	732	13	2%	981	230	23%
T76	966	11	1%	1,141	260	23%
M26	1,067	321	30%	0	0	
M31	1,348	513	38%	0	0	
M38	765	279	36%	0	0	
M4	1,242	385	31%	0	0	
M77	1,380	503	36%	0	0	
M78	1,384	445	32%	0	0	
Total	19,019	2,608	14%	13,073	2,979	23%

The number of escorts demonstrates the number of times a paramedic was used to escort an ALS patient to the hospital. **The chart above displays how often the responding units used escorts, which was approximately 25% of the respective unit's responses.** Noteworthy, and as expected, E31 and E54 were involved in the least amount of required ALS escorts involving the entire engine company. E31 and E54 have the availability for the transporting ambulance company to return their paramedic to the fire station after the completion of the ALS escort. This option eliminates the need for the engine company to follow the transporting ambulance to the hospital. This ability also increases the availability of the apparatus for subsequent emergency response. The percentage of transports involving E31 and E54 were 9% and 5% respectively.

Number of Times PME Dispatched in PAU Status:

UNIT	INCIDENT COUNT	PAU	TOTAL COMMIT TIME	AVERAGE COMMIT TIME
E31	71	PAU	23:17:03	0:19:41
E54	45	PAU	15:40:41	0:20:54

As mentioned previously, the only two units involved in the Phase 2 EMS enhancements having the ability to stay in service as a 3 person unit while a paramedic from their company is involved in ALS transport were E31 and E54. This ability is in contrast with the Phase 1 enhancements which the majority of the converted units had this option. **Because of this option, E31 and E54**

had the ability to respond to an additional 116 incidents when they were reduced to a 3 person company.

GOAL 3: Improve Unit Availability for Simultaneous Emergencies

Responses:

By Unit

Unit	Pre-Enhancement 8/5/2015-2/4/2016	Post-Enhancement 2/5/2016-8/4/2016	Difference in Responses	Percent of Change
<i>E4</i>	1,045	1,097	52	5%
E19	1,926	1,767	-159	-8%
E20	602	570	-32	-5%
E24	1,466	1,415	-51	-3%
<i>E26</i>	1,041	985	-56	-5%
E27	222	190	-32	-14%
<i>E28</i>	1,007	1,128	121	12%
<i>E31</i>	943	1,027	84	9%
E36	1,260	1,029	-231	-18%
<i>E38</i>	769	869	100	13%
<i>E47</i>	425	481	56	13%
E51	911	872	-39	-4%
<i>E54</i>	635	885	250	39%
<i>E55</i>	422	449	27	6%
E6	1,408	1,083	-325	-23%
E66	1,717	1,667	-50	-3%
<i>E70</i>	1,149	1,102	-47	-4%
E71	1,650	1,574	-76	-5%
E72	1,913	1,552	-361	-19%
E73	1,363	1,344	-19	-1%
E74	1,675	1,174	-501	-30%
E75	1,899	1,711	-188	-10%
<i>E77</i>	1,342	1,326	-16	-1%
<i>E78</i>	1,357	1,601	244	18%
<i>E79</i>	732	981	249	34%
T4	592	584	-8	-1%
T6	563	561	-2	0%
T43	677	495	-182	-27%
<i>T76</i>	966	1,141	175	18%
M21	1,756	1,625	-131	-7%
<i>M26</i>	1,067	0	-1067	-100%
<i>M31</i>	1,348	0	-1,348	-100%
<i>M38</i>	765	0	-765	-100%
<i>M4</i>	1,242	0	-1,242	-100%
M45	978	1,055	77	8%
<i>M77</i>	1,380	0	-1,380	-100%
<i>M78</i>	1,384	0	-1,384	-100%
Total	41,597	33,340	-8,257	-20%

*Bold & italicized font denotes units with staffing changes for Phase II / *Normal font denotes adjacent units

By Battalion

Unit Responses Per Battalion	Pre-Implementation 8/5/2015-2/4/2016	Post-Implementation 2/5/2016-8/4/2016	Difference in Responses	Percent of Change
B3	3,077	2,759	-318	-10%
B4	4,371	3,508	-863	-20%
B5	10,252	7,518	-2,734	-27%
B7	5,370	4,382	-988	-18%
B9	16,810	13,506	-3,304	-20%
Total	39,880	31,673	-8,207	-21%

Overall workload based on unit responses went down by approximately 20%. The primary influence on reducing workload measured by unit response is the de-commissioned paramedic vans and the conversion of suppression units to paramedic status. Four of the eight units that saw an increase in workload (5-18% increase) during the evaluation period had a de-commissioned paramedic van responding from their station prior to the trial. The four responding companies with the biggest increase in workload were E54, E78, E79 and T76. The response area for E54 as a now converted paramedic engine grew considerably with some primary coverage areas expanding into the canyon areas. T76 is now responsible for coverage into what was serviced by M77 and E78 workload increased with the elimination of M78. E79 saw a 25% increase in call volume that will likely be tempered with the planned conversion of E37 to a paramedic engine company. Nineteen of the thirty units analyzed saw a decrease in workload, this count does not include de-commissioned paramedic vans as the decrease in their call volume is intuitive. The biggest decrease in workload was seen on T43, E6, E27, E36 and the five paramedic engines in Battalion 9 (Santa Ana). The primary reason for the decrease in workload was the addition of adjacent paramedic engine companies. T43, a unit originally converted to a paramedic truck company during Phase 1, saw its workload reduce towards its pre-Phase 1 number with the conversion of E26 and E55 to paramedic engine companies.

The changes measured for unit responses by battalion did include the de-commissioned paramedic vans. The reason for the inclusion in the unit response count by battalion is to show that the objective of reducing the number of responding units per call was met during the Phase 2 trial. This objective was met in all battalions at roughly the 20% level with the exception of Battalion 3. Battalion 3 had only one unit converted to a paramedic engine in Phase 2 and saw a reduction of 10% in unit response.

Total Incident Commit Times:

Unit	Average Aug-Feb	Average Feb-Aug	Total Aug-Feb	Total Feb-Aug	Commit Time Change
E4	0:19:09	0:28:11	333:34:33	515:09:32	10,895 minutes
E6	0:24:00	0:26:00	563:21:04	469:25:37	-5,636 minutes
E19	0:27:52	0:29:39	894:32:37	873:25:58	-1,267 minutes
E20	0:26:51	0:27:03	269:26:22	256:54:48	-752 minutes
E24	0:27:24	0:30:21	668:52:30	715:52:12	2,820 minutes
E26	0:20:02	0:26:04	347:31:44	427:57:16	4,826 minutes
E27	0:27:19	0:29:15	101:03:17	92:36:42	-507 minutes
E28	0:20:37	0:27:37	346:00:05	519:15:11	10,395 minutes
E31	0:18:40	0:24:22	294:18:25	416:40:57	7,343 minutes
E36	0:25:25	0:26:49	533:44:10	459:58:53	-4,427 minutes
E38	0:20:14	0:29:44	259:20:09	430:34:52	10,275 minutes
E47	0:18:45	0:25:24	132:47:17	203:40:58	4,254 minutes
E51	0:25:05	0:24:45	380:44:34	359:49:16	-1,255 minutes
E54	0:20:24	0:22:20	215:57:15	329:26:50	6,810 minutes
E55	0:20:51	0:30:17	146:38:20	226:36:57	4,799 minutes
E66	0:21:36	0:21:22	618:02:49	592:29:18	-1,534 minutes
E70	0:16:44	0:21:14	320:35:05	389:53:50	4,159 minutes
E71	0:21:16	0:21:43	584:20:04	569:39:11	-881 minutes
E72	0:21:55	0:22:36	698:42:54	584:27:12	-6,855 minutes
E73	0:18:33	0:18:46	421:30:07	420:21:05	-69 minutes
E74	0:22:51	0:24:16	638:03:30	474:45:26	-9,798 minutes
E75	0:20:17	0:21:27	642:10:33	611:46:07	-1,824 minutes
E77	0:17:24	0:24:10	389:11:23	534:15:44	8704 minutes
E78	0:18:42	0:22:51	422:48:18	609:33:31	11,205 minutes
E79	0:18:48	0:25:25	229:19:06	414:41:19	11,122 minutes
T4	0:18:38	0:15:44	183:48:17	153:06:19	-1,842 minutes
T6	0:19:56	0:18:36	187:02:39	173:54:32	-891 minutes
T43	0:28:39	0:27:58	323:18:27	230:39:26	-5,559 minutes
T76	0:20:58	0:24:42	337:37:41	469:49:47	7,932 minutes
M21	0:25:28	0:27:50	744:45:33	753:39:21	534 minutes
M26	0:29:30		524:28:31		-31,468 minutes
M31	0:34:16	0:37:08	769:44:20		-46,184 minutes
M38	0:32:32		414:42:19		-24,882 minutes
M4	0:27:26	0:12:29	567:56:44		-34,077 minutes
M45	0:36:37	0:36:58	596:45:26	643:16:35	2,791 minutes
M77	0:27:09		624:28:47		-37,469 minutes
M78	0:25:30	0:39:13	588:04:48		-35,285 minutes
Total All Units	0:23:32	0:25:04	16,315:19:43	13,923:44:42	-143,495 minutes
Total Excluding Decommissioned Medic Vans	0:21:56	0:25:04	12,825:54:41	13,923:44:42	65,870 minutes

**Bold & italicized font denotes units with staffing changes for Phase II / *Normal font denotes adjacent units*

Battalion	Impact on Availability
1	26 hours more availability
3	12 hours more availability
4	286 hours more availability or 129 hours less availability w/o decommissioned medic vans
5	797 hours more availability or 389 hours less availability w/o decommissioned medic vans
7	441 hours more availability or 329 hours less availability w/o decommissioned medic vans
9	818 hours more availability or 395 hours less availability w/o decommissioned medic vans

Commit times reflect the time the unit was committed to a call from time of dispatch to time unit cleared call and returned to service. Predictably, the newly converted paramedic engines experienced an increase in call commit times. With the exception of E31 and E54*, the converted paramedic engines are now involved with transporting ALS patients to the hospital and subsequently, picking up their crew members after patient care is transferred to hospital staff. In addition to patient follow up, the increase in commit times can be affected by outside influences, primarily proximity to area hospitals and the traffic conditions to and from the hospital. Phase 2 Paramedic Engines 4, 28, 38, and 55 experienced longer average commit times than the other Phase 2 participants, partially due to this influence. There were instances during the trial period when adjacent response areas had converted ALS units assigned to multiple incidents in the vicinity, consistent with instances prior to the trial period. The effects of the situation are dependent on the somewhat unpredictable nature of simultaneous incidents in an area and the commit times of the individual incident. Incident commit times for units involved in the Phase 2 enhancements did increase but this scenario was countered by an increase in the overall ALS units available. It should be noted that **adjacent paramedic engines that were in service prior to Phase 2 witnessed a decrease in commit times, resulting in increased availability.** This is evident in Battalion 9 where all of the responding units have been converted to paramedic engines; Paramedic Engines 71 – 75 incident commit times all decreased. The commit times with and without the de-commissioned paramedic vans were included to reflect the difference in total unit commitment since the Phase 2 enhancements while also showing the current configuration of commit times due to patient transportation by the converted paramedic engines and Truck 76.

Commit times also reflect unit availability. Lower commit time will result in increased unit availability. An increase in commit time reflects increase in unit usage. E78 had the most significant increase in total commit time while E74 realized the greatest impact of increased availability. E72 and E6 total commit times were substantially reduced during the six month trial period. Overall, as a result of the service delivery enhancements, all battalions saw an increase in unit commit time when de-commissioned medic van time measurements were excluded. This was especially true with Battalions 9, 7 and 8.

*An agreement has been made with the responding ambulance companies to return the members of E31 and E54 to their home station after call completion.

GOAL 4: Decrease Emergency Response Impacts on Neighboring Agencies

Mutual/Automatic Aid:

Reducing Mutual/Automatic Aid received by OCFA, was a given goal. The following charts responses from neighboring agencies into the affected area of the service enhancements, specifically Costa Mesa, Fountain Valley, Garden Grove, Newport Beach and Orange.

		Total	8/5/2016 – 2/4/2016	2/5/2016 – 8/4/2016	Call Diff	% of Change	
Total	Response Count	3,826	2,166	1,660	-506	-23%	
	Incident Count	3,150	1,803	1,116	-687	-38%	
	<i>Response Count</i>	1,228	837	391	-446	-53%	
<i>Total</i>	<i>Incident Count</i>	945	672	273	-399	-59%	
Costa Mesa	ORC04	Response Count	15	8	7	-1	-13%
		Incident Count	15	8	7	-1	-13%
	ORC06	Response Count	4	3	1	-2	-67%
		Incident Count	4	3	1	-2	-67%
	ORC20	Response Count	1	0	1	1	
		Incident Count	1	0	1	1	
	ORC24	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	ORC28	Response Count	460	348	112	-236	-68%
		Incident Count	372	287	85	-202	-70%
	ORC36	Response Count	2	2	0	-2	-100%
		Incident Count	2	2	0	-2	-100%
	ORC47	Response Count	2	2	0	-2	-100%
		Incident Count	1	1	0	-1	-100%
	ORC73	Response Count	2	2	0	-2	-100%
		Incident Count	1	1	0	-1	-100%
	ORC74	Response Count	6	2	4	2	100%
		Incident Count	6	2	4	2	100%
	ORC76	Response Count	551	355	196	-159	-45%
		Incident Count	398	271	127	-144	-53%
ORC77	Response Count	160	100	60	-40	-40%	
	Incident Count	123	83	40	-43	-52%	
ORC79	Response Count	24	14	10	-4	-29%	
	Incident Count	21	13	8	-5	-38%	
<i>Total</i>	<i>Response Count</i>	523	241	282	41	17%	
	<i>Incident Count</i>	501	227	274	47	21%	
Fountain Valley	ORC66	Response Count	151	73	78	5	7%
		Incident Count	147	71	76	5	7%
	ORC70	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	ORC73	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	ORC74	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	ORC76	Response Count	5	3	2	-1	-33%
		Incident Count	4	3	1	-2	-67%
	ORC77	Response Count	273	128	145	17	13%
		Incident Count	258	116	142	26	22%

	ORC78	Response Count	91	34	57	23	68%
		Incident Count	89	34	55	21	62%
	<i>Total</i>	<i>Response Count</i>	<i>703</i>	<i>359</i>	<i>344</i>	<i>-15</i>	<i>-4%</i>
		<i>Incident Count</i>	<i>601</i>	<i>319</i>	<i>282</i>	<i>-37</i>	<i>-12%</i>
	ORC66	Response Count	286	183	103	-80	-44%
		Incident Count	270	173	97	-76	-44%
	ORC70	Response Count	1	0	1	1	
		Incident Count	1	0	1	1	
Garden Grove	ORC71	Response Count	72	30	42	12	40%
		Incident Count	68	29	39	10	34%
	ORC73	Response Count	7	1	6	5	500%
		Incident Count	7	1	6	5	500%
	ORC77	Response Count	2	2	0	-2	-100%
		Incident Count	2	2	0	-2	-100%
	ORC78	Response Count	334	142	192	50	35%
		Incident Count	252	113	139	26	23%
	ORC79	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	<i>Total</i>	<i>Response Count</i>	<i>471</i>	<i>228</i>	<i>243</i>	<i>15</i>	<i>7%</i>
		<i>Incident Count</i>	<i>395</i>	<i>191</i>	<i>204</i>	<i>13</i>	<i>7%</i>
Newport Beach	ORC04	Response Count	211	104	107	3	3%
		Incident Count	165	84	81	-3	-4%
	ORC28	Response Count	258	123	135	12	10%
		Incident Count	228	106	122	16	15%
	ORC47	Response Count	1	1	0	-1	-100%
		Incident Count	1	1	0	-1	-100%
	ORC76	Response Count	1	0	1	1	
		Incident Count	1	0	1	1	
	<i>Total</i>	<i>Response Count</i>	<i>901</i>	<i>501</i>	<i>400</i>	<i>-101</i>	<i>-20%</i>
		<i>Incident Count</i>	<i>855</i>	<i>474</i>	<i>381</i>	<i>-93</i>	<i>-20%</i>
Orange	ORC21	Response Count	134	83	51	-32	-39%
		Incident Count	118	68	50	-18	-26%
	ORC43	Response Count	31	21	10	-11	-52%
		Incident Count	29	20	9	-11	-55%
	ORC55	Response Count	12	6	6	0	0%
		Incident Count	12	6	6	0	0%
	ORC70	Response Count	409	212	197	-15	-7%
		Incident Count	389	206	183	-23	-11%
	ORC71	Response Count	304	172	132	-40	-23%
		Incident Count	296	167	129	-38	-23%
	ORC72	Response Count	5	3	2	-1	-33%
	Incident Count	5	3	2	-1	-33%	
ORC73	Response Count	1	0	1	1		
	Incident Count	1	0	1	1		
ORC75	Response Count	5	4	1	-3	-75%	
	Incident Count	5	4	1	-3	-75%	

Mutual Aid Responses into OCFA:

First Due	Mutual Aid Received Pre-Enhancement	Mutual Aid Received Post-Enhancement	Call Diff	Percent of Change
ORC04	112	114	2	2%
ORC28	471	247	-224	-48%
ORC47	3	0	-3	-100%
ORC55	6	6	0	0%
ORC70	213	198	-15	-7%
ORC76	358	199	-159	-44%
ORC77	230	205	-25	-11%
ORC78	176	249	73	41%
ORC79	15	10	-5	-33%

A factor that warrants consideration regarding mutual and automatic aid response is the implementation of the county wide Automatic Vehicle Location (AVL) trial. This trial began June 1, 2016, and changed the agreements of Orange County Fire Departments to allow the dispatching of the closest emergency resource regardless of jurisdiction. This can have an influence on the mutual/automatic aid response data. With that consideration, the objective of decreasing emergency response impact on neighboring jurisdictions into ORC coverage area was recognized in the response areas of ORC E28 and T76. Responses to those areas from neighboring jurisdictions reduced approximately 46%. Costa Mesa realized the greatest reduction of impact with 53% less responses into the study area. Costa Mesa M82 response into OCFA jurisdiction reduced by 81% with the majority of response reduction occurring in the OCFA E28 and T76 area, two areas targeted in the Phase 2 enhancements. **Overall reduction in the analyzed areas showed a reduction of 23% in mutual/automatic aid response into OCFA jurisdiction with a 38% reduction in OCFA incidents utilizing mutual/automatic aid.** OCFA E26, E31, E38, E47, E54 and E55 generally do not receive ALS aid from outside jurisdictions as they are surrounded by adjacent OCFA units. Feedback from field personnel suggested an increase of responses into OCFA FS4 area but the data compiled in this study shows little change in reliance on aid from Newport Beach. A breakdown of mutual aid unit's individual impact can be found in Attachment 4.

GOAL 5: Enhance Firefighter Safety (2 in/2 out)

2 In 2 Out

For the purposes of this study, 2 in/2 out measures the time that 4 firefighters on 1 responding unit (engine or truck only) arrives on scene. To measure the 2 in/2 out factor after the enhancements were in place, the data for the first due areas of ORC04, ORC26, ORC28, ORC38, ORC47, ORC55, ORC 31, ORC54, ORC70, ORC77, ORC78, and ORC79 were reviewed. These stations had staffing increased from 3 FF to 4 FF for the trial period. Detail of the incidents reviewed is provided in the attachments. The information provided below is a summary to display what the delay was and what the delay would have been if these enhancements were not implemented.

The numbers provided show the time delay from 3 firefighters to 4 firefighters. Although average times were provided, several incidents had a 0 value.

Incident Count – Pre-Enhancement	Average Delay	Incident Count – Post-Enhancement	Average Delay w/o Enhancement	Actual Delay
135	0:00:54	134	0:00:56	0:00:00

There was an average time delay of 0:0:54 prior to service enhancements to establish 2 in/2 out when compared to the period with the Phase 2 service enhancements. Consistent with the pre-implementation findings, the average time delay to establish 2 in/2 out in the post-enhancement time frame would have been 0:00:56. **During Phase 2, with service enhancements in place there was no time delay to meet the 2 in 2 out requirements.** The only potential time delay would occur if a 4 person ALS engine/truck were in PAU status. See Attachment 3 for Unit Detail.

Summary:

The objective of phased EMS enhancements underway by the Orange County Fire Authority is to improve service delivery by accomplishing five goals. The Phase 2 EMS enhancements accomplished the five goals with room for improvement in one of the five categories.

The first goal was to reduce ALS response times. Prior to the Phase 2 enhancements, seven of the thirteen response areas involved in the study lacked an ALS unit in the respective area's first due resulting in improved ALS response times within that area. Intuitively the belief would be that those areas would see the most dramatic improvement in response times. The analysis of the ALS response times shows an overall average reduction of 20% ALS response times but there is no clear pattern when comparing stations with ALS capabilities to non-ALS capability stations during the two periods analyzed. The lack of a clear pattern could be the result of the common occurrence of the paramedic van either not responding from the station or the historical reliance on adjacent paramedic vans covering an area vacated by a paramedic van already committed to another ALS incident. All stations involved in the Phase 2 enhancements saw an improvement in ALS response times with the range from 1% in FS4 area to 36% in FS77 area.

The second goal of reducing the number of responding units to ALS incidents was clearly met. Comparing the two trial periods, there was an increase of one unit responses by 66%. The number of incidents in the areas involved requiring multi-unit responses during the Phase 2 enhancement trial period was reduced by 48% or 8,379 incidents with the majority of the difference seen in the reduction of two unit responses. Two unit responses were reduced by 51%.

Improving ALS unit availability was the third goal identified with the EMS enhancements. The success of this goal was more dependent on the location of the unit involved in the study. An ALS escort was utilized roughly 25% of the incidents responded to which, with the exception of E31 and E54, required the unit to follow up with the patient to the hospital so the OCFA crew could return to full strength. This situation resulted in an increase in commit times of all of the units involved in the Phase 2 enhancements. When comparing the pre and post Phase 2 implementation time periods, the biggest increase in commit times occurred with some of the units located in Battalion 5. These units, in general, are not as proximal to area hospitals and their average commit time to an incident increased by 8-10 minutes. When compared to Phase 2 units in Battalion 9, where there is a greater density of area hospitals, the Battalion 9 commit times were less. As noted earlier, paramedic engine companies that were in service prior to the Phase 2 enhancements in and around Battalion 5 and Battalion 9 saw a decrease in commit times and were available for ALS response more often, along with more ALS units being available due to the enhancements. E54 commit times increased only marginally despite the fact that some of their response times increased into canyon areas and the distance the station is from area hospitals. E54 has the option to have their ALS escort paramedic returned to FS54 by the transporting ambulance company. This minimal impact on commit times is influenced by this option and has allowed E54 to respond

to 45 secondary incidents while they remained in service with 3 crew members. A similar situation regarding secondary response as a three person crew occurred with E31 during the trial period (71 responses).

The fourth goal of the enhancement was to decrease emergency response impact on neighboring jurisdictions. The units responding from neighboring jurisdictions into the areas affected by the Phase 2 enhancements were analyzed. Overall there was a reduction of non-OCFA unit response of 23% and a decrease in incident response of 38%. Aid received from Costa Mesa and Garden Grove and Orange Fire Departments saw reductions while aid received from Fountain Valley and Newport Beach Fire Departments saw an increase. During the Phase 2 evaluation period, a separate simultaneous trial of dispatching the closest unit response was underway. In this separate trial Garden Grove Fire Department saw an increase in response to OCFA jurisdiction while the areas affected by the Phase 2 enhancements saw a decrease in aid received from Garden Grove Fire Department. While some neighboring jurisdictions saw an increase in aid given to the OCFA and other jurisdictions saw a decrease, overall the OCFA required less responses from non-OCFA units with noticeable improvements in FS28 and FS76 area.

The final goal of the Phase 2 enhancements was to enhance firefighter safety by reducing the required time needed to establish 2 in/2 out, as mandated by the Occupational Safety and Health Administration (OSHA). This was accomplished by changing the staffing level from three to four firefighters on the affected paramedic engine companies. This staffing change allowed a single unit to establish the required 2 in/2 out mandate, allowing for quicker, safer and more efficient fire ground operations. The response time required to get a minimum of four firefighters on scene was reduced by roughly one minute as compared to the response times of the same unit when it was a three person engine company. Previously a three person engine company had to wait for an additional responding unit to arrive on scene to establish 2 in/2 out. While the sample size of eligible responses is still relatively small (269), the expected margin of error around six to seven percent allows for a fairly accurate assessment of response times. Another less measurable benefit of the enhancement is the efficiency and general safety of a four person engine company compared to three person. The additional person allows for the fire captain to more often focus on command and control of his fire company by requiring less "hands on" assistance to his one firefighter in a three person engine company configuration.

The Phase 2 enhancements have improved service delivery by achieving the goals established prior to implementation. To improve the enhancements further, some areas may need to be addressed in the future. Utilizing the ambulance company to return the escorting ALS paramedic from the hospital would help to increase the availability to units that have longer transport times, specifically, identified paramedic engines in/around Battalion 5. Benefits of this change are less

clear in areas like Battalion 9, where hospital transport times are reduced and station density is increased. Further analysis may be needed, the OCFA has a diverse response area and some areas will be affected differently than others by this option. Units with multiple specialties, specifically E4 and E79 who are the OCFA Hazardous Materials response teams expressed an impact to their training schedule. Accommodations assisting their training schedule should be addressed in the future. The use of a paramedic truck poses more challenges than utilizing a paramedic engine. These challenges are found with configuring the unit to ALS capability and access to confined areas within the response area. Refining these areas will assist in furthering the improvements the Phase 2 enhancements have already achieved.

Attachments:

- Attachment 1 – Feedback from Field Personnel
- Attachment 2 – Comparison Maps
- Attachment 3 – 2 In/2 Out Detail
- Attachment 4 – Mutual Aid Unit Detail

Feedback from Personnel Assigned to Units Involved in Phase 2 Enhancements

- Contact was made with approximately 2/3 of all participating Phase 2 crews
- Conflicting statements from same units were the result of different personnel feedback from different shifts
- Repeated statements were included to illustrate the same feedback from different personnel

FS4

Pros

- 4 man engine company capabilities and efficiency vs 3 man
- “All in all, it’s working”

Cons

- PAU system could improve service delivery
 - “Works in other OCFA areas”
 - “Would keep engines in area more often”
 - Proximal hospital transport is where enhancements have improved service
 - Feedback from one E4 FF doubted PAU capability would improve service
- Haz Mat training has been more difficult to complete due to follow ups
- Notice E6/E36 responding into areas during hospital follow up
- "Too many specialties out of one station"

FS26

Pros

- Efficiency of 4 man engine company
- “It’s great, I like it”
- Works well in area due to proximal hospital locations

Cons

- Hospital follow up
 - Times
 - A void if adjacent engine is on simultaneous ALS escort

FS28

Pros

- Single unit response can handle incident
- 4 man engine capabilities, especially with Hi Rise buildings in area
- “Working out well”
- Hospital follow ups are not a big problem
- Initial concern regarding consequences of units being pulled out of area have not been founded

Cons

- Hospital follow up pulls engine out of area/adjacent engine response is required
- Ability to utilize PAU status/ambulance return would improve service

Note: Discrepancy of opinions regarding hospital follow up effects

FS31

Pros

- “Nothing but benefits”
- Quicker to secondary calls due to E31 having PAU option
- PAU can cancel responding ALS unit if appropriate
- Engine stays in response area more often
- “Works well”
- “Awesome”
- Medic return via ambulance is working well

Cons

- Response times into adjacent areas have increased/longer response times
- Having 5 responders from station had benefits in the past

FS38

Pros

- None expressed

Cons

- “I don’t like it”
- Out of service time required for hospital follow up
- Medic van service model allowed for EMS redundancy in area
- Preferred 5 man capability (3 man engine/2 man medic van)
 - Met 2 out requirement as a combination of two units
- Adjacent engine companies covering different areas for second calls in area

FS47

Pros

- “Working well”
- ALS capabilities
- E47 has good proximity to hospital
- “1 unit response is ideal”
- “Great System”
- 4 man engine capability/efficiency benefits
- “Working out perfectly”
- No need to repeat ALS questions arriving ALS unit (under previous configuration)
- One paramedic team serving patient for incident duration
- “Great for coverage”

- Minimal impact on adjacent engine companies
- Less personnel on calls

Cons

- Inter-facility transports result in long incident times

FS54

Pros

- 4 man engine capabilities
 - Working structure fire incident, 4 man engine company completed suppression efforts with great efficiency
 - More efficient on ALS incidents
- PAU capabilities for E54
 - “Picked up some legit incident responses as PAU in our area”
 - Works well in E54 area due to distance to hospitals
 - Few hospital follow ups
- Meets expanding community needs in FS54 area

Cons

- Long responses into OCFA canyon areas/long responses when responding with non ALS units
- Response area expands appreciably when adjacent ALS units are in use
 - Additional medic units in area would help
- Still two engine response when responding with non ALS units
- More mileage on front line engine

FS55

Pros

- “All good”
- Better efficiency/more productive
- “Outstanding change”
- 4 man engine capabilities
 - Safety, efficiency and performance
 - Would be very beneficial in perimeter coverage areas (FS53, FS40)
- “Nothing negative”

Cons

- None expressed

E70

Pros

- “Working out great”
- Likes benefits of 4 man engine company
- Hospital proximity is ideal for E70/quick return to service
- One unit response can handle emergency

- “Overall good”

Cons

- None expressed

T76

Pros

- Ability to handle ALS responses with one unit
- Quicker delivery of ALS treatment
- “Overall good”
- T76 in first in area more
- More ALS units in the city/better service for public
- Continuous care from same paramedics for ALS patients

Cons

- Long hospital follow ups/patient request for out of area hospitals
- Compartment and weight issues for T76/too much complement
- “Hard mileage on truck”/increase of daily fuel requirements
- Truck maneuverability on narrow access roads
- “Ability to utilize PAU status would help”
- Truck coverage reduced during hospital follow up/potential of 3 ALS trucks on EMS calls
- Frequent inter-facility transports/call duration
- Increase use of FVY M82

E77

Pros

- 4 man engine efficiency/capability
- Quicker ALS response time
- “Working out well”
- FS77 has multiple hospital options in area
- Has not noticed “gaping hole” in area as thought would occur

Cons

- 5 person fire response of previous configuration
- Hospital follow up times
- Ambulance response times can be extended
- PAU option may not work in E77 area due to call succession/volume

E78

Pros

- “Overall good”
- 4 man engine efficiency and capability
- PAU option not necessary for FS78 area due to hospital proximity

Cons

- Noticeable increase in response to Garden Grove & Fountain Valley as ALS unit
- Some long hospital follow ups
- PAU option may not work in E78 area due to call succession/volume

E79

Pros

- 4 man efficiency and capabilities
- 1 unit ALS response
- “Mostly positive”
- Hospital proximity to FS79

Cons

- Responses out of area
- Haz Mat training gets interrupted
- Hospital follow up duration

Battalion 3

Pros

- “Seems to be running smoothly”
- “All good with Phase 2”

Battalion 4

Pros

- “No real issue, it works”
- 4 man efficiency/capabilities

Cons

- Ambulance/PAU option would work due to simultaneous/second calls in area that could extend ALS response times if initial unit is on hospital follow up

Battalion 5

Pros

- No big changes to negative
- “Overall better service model, more medic coverage
 - Recent MCI with 6 ALS engines on scene quickly

Cons

- Concerns of battalion coverage during hospital follow up
 - FS4 and FS28 response area most noticeable
 - Adjacent unit response, occasional Newport Beach aid required
- Haz Mat training interruptions at FS 4

Battalion 7

Pros

- 4 man engine efficiency/capabilities
- PAU option/ambulance paramedic return helps in Battalion 7 area

Cons

- Battalion coverage for planned events is more difficult without medic vans
- E54 access problems to ALS calls in canyon areas
- Units pulled out of initial response area for ALS incidents
- System works better in areas with higher hospital density

Battalion 9

Pros

- Works in B9 area/surrounded by hospital

Cons

- Adjacent stations have simultaneous incidents can result in out of area response
- Haz Mat 79 training interrupted by increase in response

Comparison Response Maps

IRVINE-B5	Station	Pre Enhancement	Post Enhancement
	4	E-4, M-4	PME-4
	26	E-26, M-26	PME-26
	28	PAU-28	PME-28
	38	E-38, M-38	PME-38
	47	PAU-47	PME-47
	55	PAU-55	PME-55
MISSION VIEJO			
	31	E-31, M-31	PME-31
LAKE FOREST			
	54	PAU-54	PME-54
SANTA ANA -B9			
	70	PAU-70	PME-70
	76	PAU-T-76	PMT-76
	77	PAU-77, M-77	PME-77
	78	PAU-78, M-78	PME-78
	79	PAU-79	PME-79

Irvine/B5 Maps – 1st ALS Response Before and After
(affected stations – ORC 4, 26, 28, 38, 47, and 55)

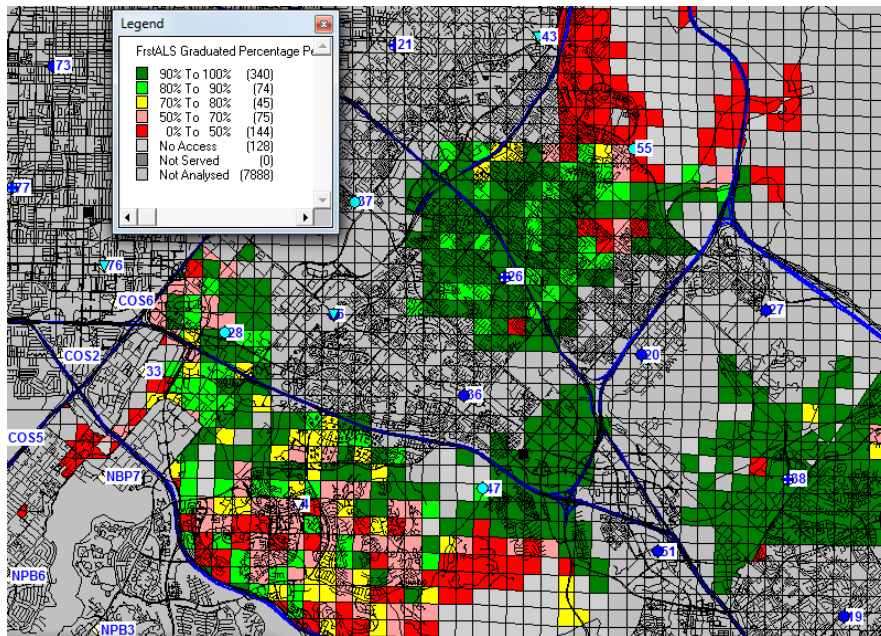


Figure 1 - ADAM – IRVINE/B5 (ORC 4, 26,28,38,47 &55) - First ALS Receipt to On-Scene-Pre Enhancement

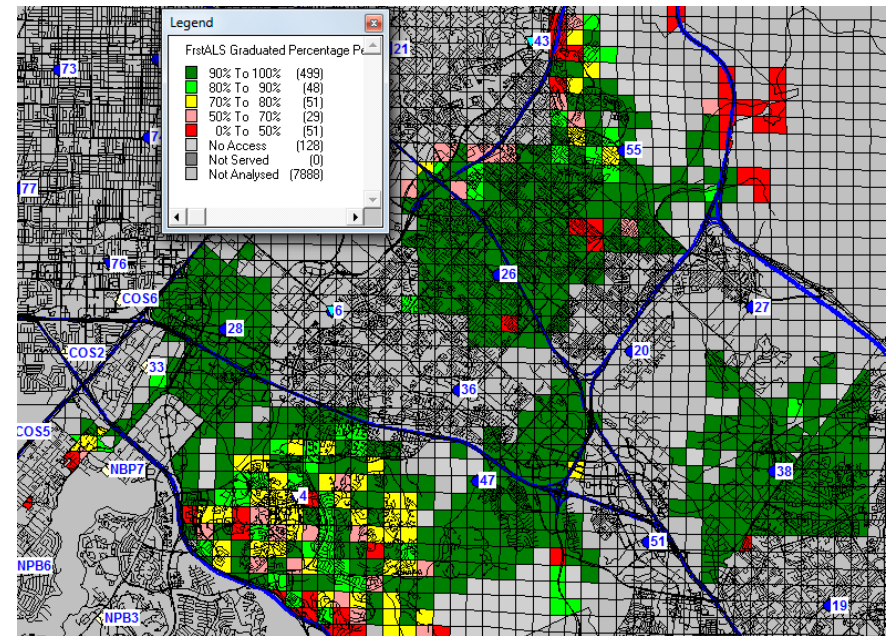


Figure 2 - ADAM – IRVINE/B5 (ORC 4, 26,28,38,47 &55) - First ALS Receipt to On-Scene-Post Enhancement

ORC 31 Map – 1st ALS Before and After

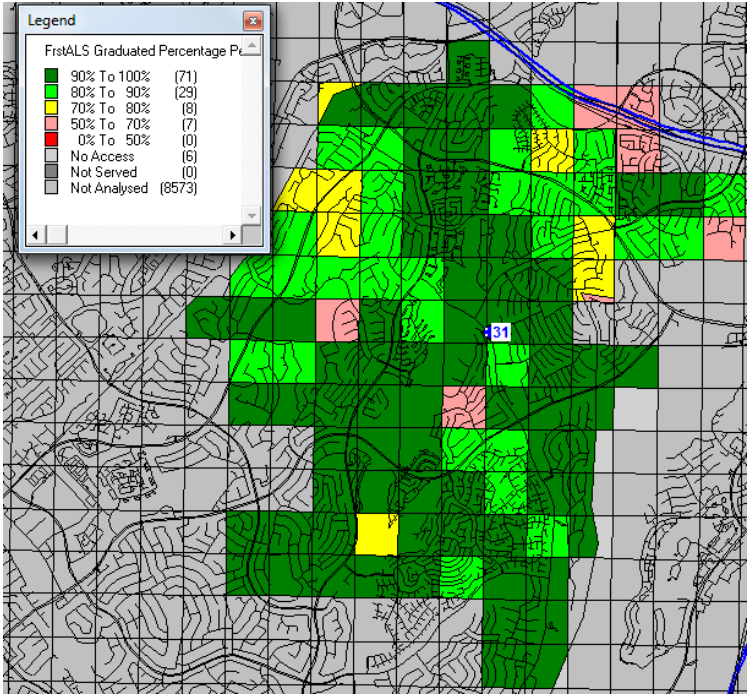


Figure 3 - ADAM – ORC 31 - First ALS Receipt to On-Scene-Pre Enhancement

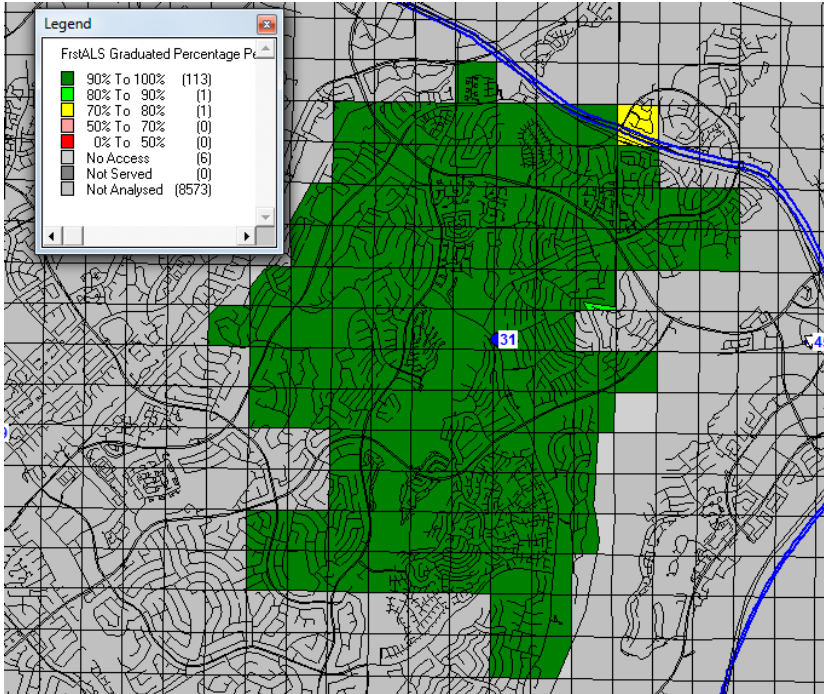


Figure 4 - ADAM – ORC31 - First ALS Receipt to On-Scene-Post Enhancement

ORC 54 Map – 1st ALS Before and After

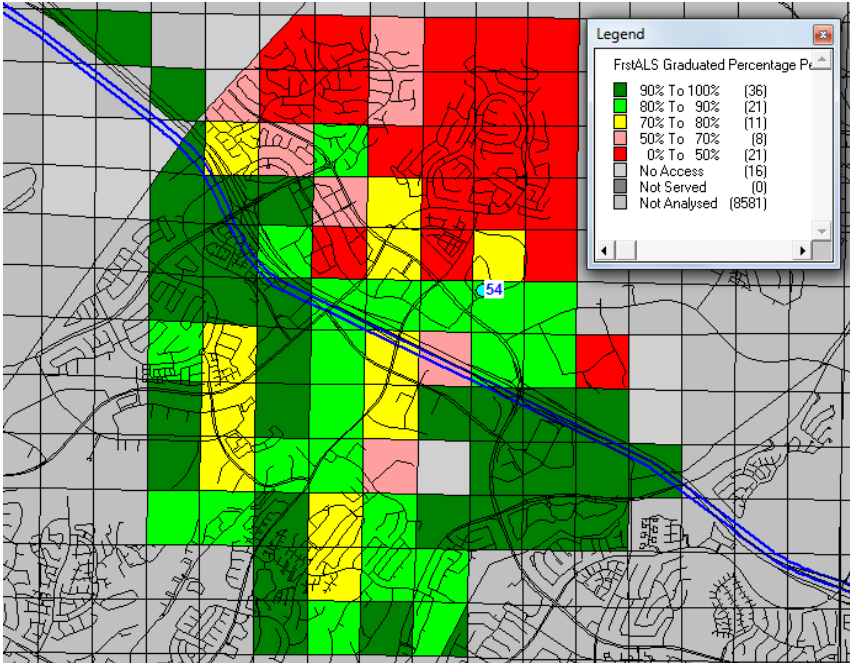


Figure 5 - ADAM – ORC54 - First ALS Receipt to On-Scene-Pre Enhancement

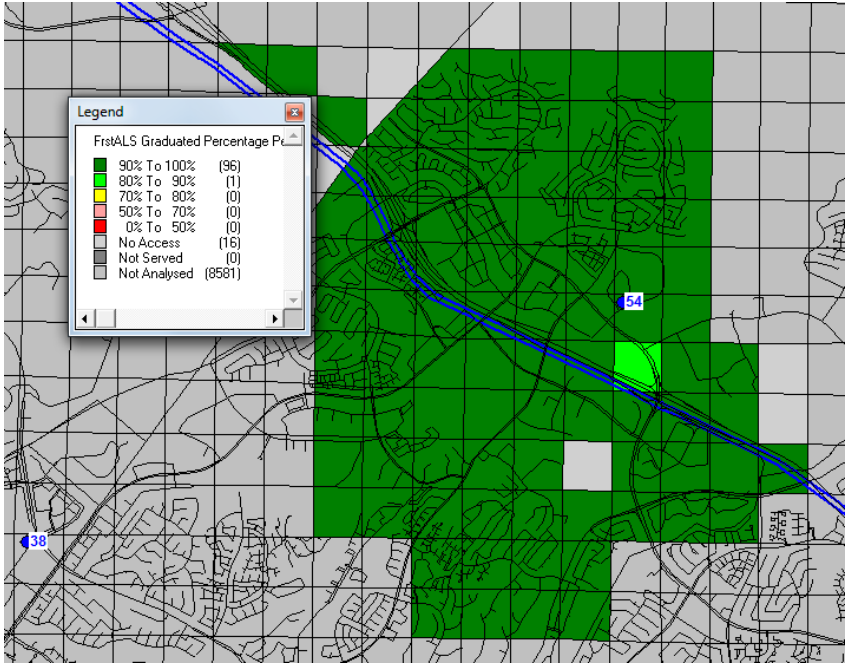


Figure 6 - ADAM – ORC54 - First ALS Receipt to On-Scene-Post Enhancement

Santa Ana /B9 Map – 1st ALS Before and After (affected stations – ORC 70,76,77,78, and 79)

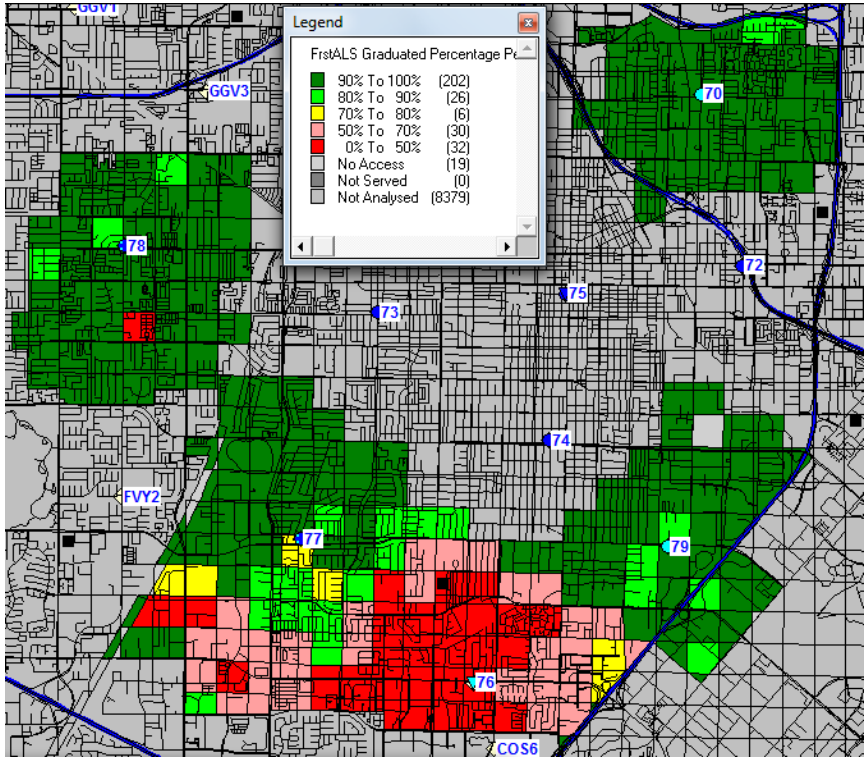


Figure 7 - ADAM - SANTA ANA/B9 (ORC 70,76,77,78, and 79) - First ALS Receipt to On-Scene-Pre Enhancement

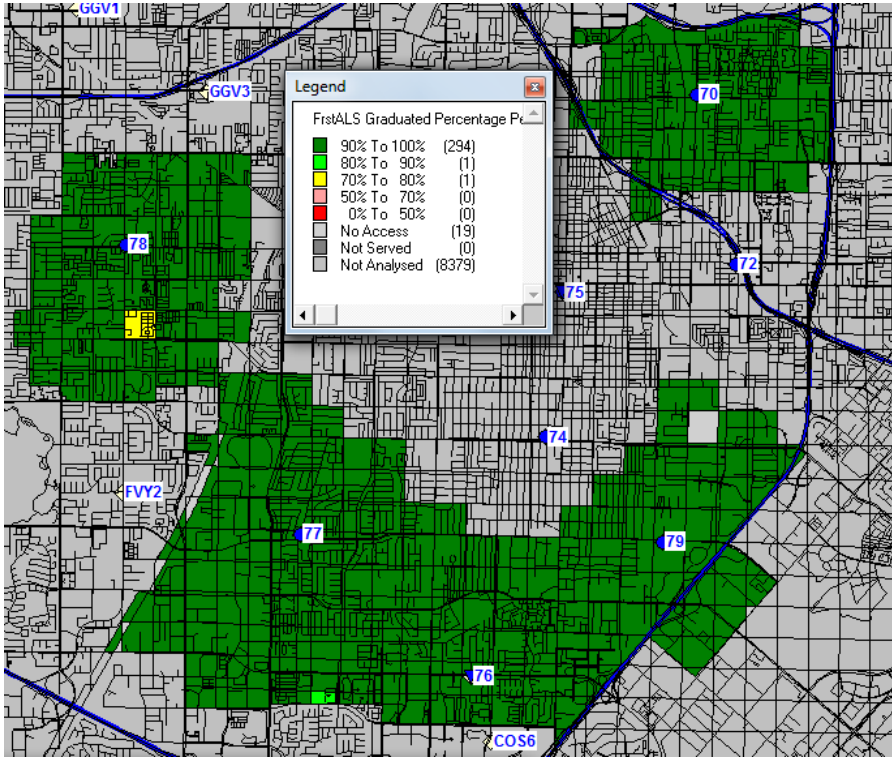


Figure 8- ADAM - SANTA ANA/B9 (ORC 70,76,77,78, and 79) - First ALS Receipt to On-Scene-Post Enhancement

2 In/2Out

ORC04 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015078598	WSTR	0:01:58
2015086584	STR	0:00:00
2015090642	STR	0:00:20
2015109186	STR	0:00:00
2015119102	WSTR	0:00:18
2015120167	STRSMK	0:00:25
2015122521	STRSMK	0:00:00
2015127009	STR	0:00:00
2015129132	STRSMK	0:02:31
2015129321	STRO	0:00:00
2016007974	STRO	0:00:00
2016012151	STRO	0:00:00
2016013333	STRHR	0:00:00
Average Delay		0:00:26

ORC04 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016020624	STRO	0:00:00	0:00:00
2016026792	STR	0:00:00	0:00:00
2016031940	STR	0:00:00	0:00:00
2016034296	STRSMK	0:00:00	0:00:00
2016044961	WSTR	0:00:00	0:00:00
2016046705	STRO	0:00:00	0:00:00
2016055220	STR	0:00:00	0:06:09
2016057936	STRO	0:00:00	0:00:00
Average Delay		0:00:00	0:00:46

ORC26 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015078352	STR	0:03:53
2015083290	STRSMK	0:02:26
2015091379	STRSMK	0:00:00
2015094200	WSTR	0:00:34
2015098810	STRSMK	0:00:00
2015099071	WSTR	0:00:22
2015103241	STR	0:00:29
2015104799	STRO	0:00:00
2015110036	STR	0:00:38
2015116459	STRSMK	0:00:00
2015116909	STR	0:00:54
2015118095	STR	0:00:00
2015119363	STR	0:00:00
2015127553	WSTR	0:02:28
2015130363	STR	0:01:31
2015133429	STR	0:00:00
2016010918	STR	0:00:00
Average Delay		0:00:47

ORC26 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016017427	STRSMK	0:00:00	0:00:00
2016017755	STR	0:00:00	0:00:29
2016019843	STR	0:00:00	0:00:18
2016024255	STRSMK	0:00:00	0:00:00
2016028967	STRO	0:00:00	0:00:00
2016030310	STR	0:00:00	0:00:55
2016043393	STR	0:00:00	0:00:20
2016047411	STRSMK	0:00:00	0:00:00
2016050000	STRO	0:00:00	0:00:00
2016052441	STR	0:00:00	0:00:39
2016053156	STRSMK	0:00:00	0:00:00
2016054232	STR	0:00:00	0:00:00
2016058483	STR	0:00:00	0:01:51
2016066157	STRSMK	0:00:00	0:00:00
2016073567	STR	0:00:00	0:01:09
Average Delay		0:00:00	0:00:23

ORC28 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015079006	TCSTR	0:00:04
2015079413	STRSMK	0:00:00
2015081742	STR	0:00:48
2015082066	STR	0:00:00
2015090962	STRSMK	0:01:18
2015094032	STR	0:03:15
2015105512	STR	0:01:23
2015107210	STRF	0:02:00
2015119764	STR	0:00:55
2015121555	STR	0:00:00
2015122595	STRO	0:00:00
2015123494	STR	0:02:43
2015125330	STRSMK	0:00:00
2015132346	STRF	0:01:39
2016001908	STR	0:00:00
2016007184	STRF	0:01:18
2016008685	STR	0:00:00
2016010372	TCSTR	0:00:00
2016012639	STR	0:00:00
Average Delay		0:00:59

ORC28 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016016509	STRO	0:00:00	0:00:00
2016026476	WSTR	0:00:00	0:00:43
2016026773	STR	0:00:00	0:02:27
2016028993	STRSMK	0:00:00	0:01:36
2016032411	STRSMK	0:00:00	0:00:00
2016035682	STR	0:00:00	0:00:00
2016040506	STR	0:00:00	0:00:21
2016045897	WSTR	0:00:00	0:00:00
2016047211	STRF	0:00:01	0:00:01
2016052561	STR	0:00:00	0:00:37
2016062053	WSTR	0:00:00	0:02:41
2016064705	STR	0:00:00	0:02:46
2016065102	STR	0:00:00	0:00:00
2016069260	STR	0:00:00	0:00:00
2016070564	STR	0:00:00	0:00:00
2016071788	STR	0:00:00	0:01:19
2016081169	STRSMK	0:00:00	0:00:45
Average Delay		0:00:00	0:00:47

ORC31 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015079039	STRSMK	0:00:00
2015096956	STRSMK	0:00:00
2015097576	STRSMK	0:00:00
2015104393	STRSMK	0:00:00
2015106884	STR	0:00:59
2015117215	STR	0:04:53
2015118113	STR	0:00:01
2015124961	STR	0:00:00
2015125707	STR	0:00:00
2016002290	STRVEH	0:00:00
2016003615	STRO	0:00:00
2016004262	STR	0:00:00
2016005542	STR	0:00:26
Average Delay		0:00:29

ORC31 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016024267	TCSTR	0:00:00	0:00:00
2016026999	STR	0:00:00	0:01:16
2016027534	STR	0:00:00	0:01:07
2016032452	STR	0:00:00	0:00:51
2016034892	STR	0:00:00	0:00:00
2016043640	STR	0:00:00	0:00:00
2016048122	STRSMK	0:00:00	0:00:00
2016058799	STR	0:00:20	0:00:20
2016059104	STR	0:00:01	0:00:01
2016062375	STR	0:00:00	0:01:03
2016064583	STR	0:00:00	0:00:00
2016079865	STR	0:00:00	0:00:00
Average Delay		0:00:02	0:00:23

ORC38 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015080486	STR	0:00:00
2015083862	WSTR	0:02:16
2015091625	STR	0:01:01
2015093993	STR	0:00:00
2015099204	TCSTR	0:00:00
2015107931	STR	0:00:00
2015110312	STR	0:01:44
2015114103	STRO	0:00:00
2015117580	STR	0:00:59
2015121806	WSTR	0:02:00
2016002125	STR	0:00:08
2016006091	STR	0:01:00
Average Delay		0:00:46

ORC38 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016016174	TCSTR	0:00:00	0:00:00
2016017989	STR	0:00:00	0:02:40
2016042973	STR	0:00:00	0:01:16
2016044745	STRSMK	0:00:00	0:00:00
2016045318	WSTR	0:00:00	0:00:00
2016047889	STRSMK	0:00:00	0:00:00
2016047929	STR	0:00:00	0:00:26
2016065677	STR	0:00:00	0:01:37
2016079378	STRO	0:00:00	0:00:00
2016079986	STR	0:00:00	0:04:25
2016081033	STRSMK	0:00:00	0:00:00
Average Delay		0:00:00	0:00:57

ORC47 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015095419	STR	0:00:00
Average Delay		0:00:00

ORC47 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016050848	STRSMK	0:00:00	0:00:00
2016053497	STR	0:00:00	0:00:00
2016055012	STRSMK	0:00:00	0:00:00
2016055171	WSTR	0:00:00	0:02:16
2016059826	STRSMK	0:00:00	0:04:36
2016073915	WSTR	0:00:00	0:02:11
2016079732	STRSMK	0:00:00	0:03:10
Average Delay		0:00:00	0:01:45

ORC54 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015090168	STRSMK	0:00:00
2015092300	WSTR	0:09:22
2015102788	WSTR	0:00:13
2015116448	STR	0:04:18
2015117795	STR	0:01:53
2015124668	WSTR	0:01:24
2015126338	STR	0:00:00
2015132544	STR	0:03:50
2016000658	STR	0:00:12
2016001920	STRSMK	0:02:58
2016008611	STR	0:01:34
Average Delay		0:02:20

ORC54 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016013900	WSTR	0:00:00	0:00:00
2016022375	STR	0:00:00	0:00:00
2016026263	STRSMK	0:00:00	0:00:00
2016027189	STRVEH	0:00:00	0:00:00
2016037575	STRSMK	0:00:00	0:00:00
2016045264	STRSMK	0:00:00	0:00:00
2016049405	WSTR	0:00:00	0:00:32
2016066818	STR	0:00:00	0:02:21
2016070534	STR	0:00:00	0:04:01
Average Delay		0:00:00	0:00:46

ORC55 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015081685	STR	0:00:32
2015087979	STR	0:02:03
2015090290	STR	0:03:35
2015113091	STR	0:00:00
2015115020	STRSMK	0:00:00
2015115717	STR	0:00:00
2015119184	STRSMK	0:01:50
2016004354	STR	0:02:44
Average Delay		0:01:21

ORC55 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016014157	STR	0:00:00	0:01:37
2016014691	STRSMK	0:00:00	0:00:00
2016040205	STR	0:00:05	0:00:00
2016069019	STRO	0:00:00	0:00:00
Average Delay		0:00:00	0:00:24

ORC70 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015077698	STRSMK	0:00:00
2015087873	TCSTR	0:00:00
2015098017	STR	0:00:16
2015114306	STRSMK	0:02:56
2015120284	STR	0:01:01
2015122792	STR	0:01:35
2015131334	STR	0:00:02
2015133692	STRSMK	0:00:00
2016003820	STRSMK	0:00:00
2016008937	STR	0:04:41
2016012604	STRSMK	0:08:40
Average Delay		0:01:03

ORC70 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016013784	STR	0:00:00	0:00:29
2016014719	STRSMK	0:00:00	0:00:00
2016029385	STRF	0:00:00	0:00:00
2016030171	STRSMK	0:00:00	0:00:00
2016046799	STRHR	0:00:00	0:00:16
2016062023	WSTR	0:00:00	0:01:08
2016069794	STR	0:00:00	0:00:00
2016079832	STR	0:00:00	0:02:51
Average Delay		0:00:00	0:00:36

ORC77 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015088294	WSTR	0:02:05
2015094168	STRO	0:00:00
2015097842	STR	0:00:37
2015099222	STR	0:00:02
2015109764	STR	0:01:47
2015115254	WSTR	0:00:43
2015119946	STR	0:00:34
2015121057	WSTR	0:01:11
2015121709	STR	0:00:15
2015123256	STR	0:00:35
2015127057	STR	0:01:07
2015130141	STRF	0:02:53
2016003640	STR	0:00:13
2016009469	STR	0:01:22
2016012474	STR	0:00:00
Average Delay		0:00:55

ORC77 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016013969	STRDMP	0:00:00	0:02:00
2016017398	STR	0:00:00	0:00:23
2016018144	STR	0:00:00	0:00:00
2016029852	STR	0:00:00	0:00:30
2016050401	STR	0:00:00	0:00:00
2016053231	STRSMK	0:00:00	0:03:00
2016054184	STR	0:00:00	0:03:35
2016054681	STR	0:00:00	0:00:02
2016056738	STR	0:00:00	0:00:14
2016062827	STRSMK	0:00:00	0:00:45
2016062958	STR	0:00:00	0:00:00
2016076420	STR	0:00:00	0:00:00
2016078924	STR	0:00:00	0:01:31
Average Delay		0:00:00	0:00:55

ORC78 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015102503	TCSTR	0:02:48
2015106231	STR	0:00:00
2015108109	STR	0:00:45
2015113243	STR	0:02:07
2015118747	STRF	0:00:00
2015121715	STRDMP	0:00:00
2015128771	TCSTR	0:00:00
2015129842	STRF	0:00:00
2015132851	STR	0:00:00
2016005999	TCSTR	0:00:00
Average Delay		0:00:34

ORC78 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016014571	STR	0:00:00	0:02:55
2016025470	WSTR	0:00:00	0:00:01
2016025748	STR	0:00:00	0:00:00
2016033916	STR	0:00:00	0:04:06
2016039732	STR	0:00:00	0:01:15
2016040682	STR	0:00:00	0:01:50
2016041592	STR	0:00:00	0:04:42
2016042331	STRSMK	0:00:00	0:00:00
2016043976	TCSTR	0:00:00	0:00:00
2016053160	STRSMK	0:00:00	0:00:00
2016056754	STR	0:00:00	0:00:02
2016070127	STR	0:00:00	0:01:03
2016070982	STR	0:00:00	0:06:30
Average Delay		0:00:00	0:01:58

ORC79 8/5/2015 to 2/4/2016		
Incident #	Inc Type	Time Delay
2015084264	STR	0:01:43
2015088751	STR	0:00:00
2015090927	STRSMK	0:00:00
2015099837	STR	0:03:10
2015115014	STR	0:00:40
2016010367	STRSMK	0:00:00
Average Delay		0:00:55

ORC79 2/5/2016 to 8/4/2016			
Incident #	Inc Type	Time Delay	Time Delay w/o Enh
2016014119	STR	0:00:00	0:00:30
2016014811	STR	0:00:00	0:01:05
2016020722	WSTR	0:00:00	0:00:33
2016032797	STRSMK	0:00:00	0:05:04
2016039169	STR	0:00:00	0:00:25
2016049208	STR	0:00:00	0:03:57
2016049342	TCSTR	0:00:00	0:00:00
2016055664	STR	0:00:00	0:01:51
2016056326	WSTR	0:00:00	0:00:58
2016057163	STR	0:00:00	0:00:08
2016057495	STR	0:00:00	0:01:06
2016060615	STR	0:00:00	0:00:12
2016062337	WSTR	0:00:00	0:00:50
2016066421	STR	0:00:00	0:02:40
2016066807	STR	0:00:00	0:00:08
2016067090	WSTR	0:00:00	0:00:56
2016069497	STR	0:00:00	0:00:38
Average Delay		0:00:00	0:01:14

			Total	Pre-Enhancement	Post-Enhancement	Call Diff	% of Change
Total	Response Count		3,826	2,166	1,660	-506	-23%
	Incident Count		3,150	1,803	1,347	-456	-25%
Costa Mesa	Total	Response Count	1,228	837	391	-446	-53%
		Incident Count	945	672	273	-399	-59%
	COSE81	<i>Total Response Count</i>	52	26	26	0	0%
		ORC28	2	0	2	2	
		ORC76	5	2	3	1	50%
		ORC77	45	24	21	-3	-13%
	COSE82	<i>Total Response Count</i>	147	75	72	-3	-4%
		ORC28	55	30	25	-5	-17%
		ORC74	1	1	0	-1	-100%
		ORC76	67	32	35	3	9%
		ORC77	21	11	10	-1	-9%
		ORC79	3	1	2	1	100%
		<i>Total Response Count</i>	3	1	2	1	100%
	COSE83	ORC28	1	0	1	1	
		ORC76	2	1	1	0	0%
		<i>Total Response Count</i>	62	36	26	-10	-28%
	COSE85	ORC04	4	1	3	2	200%
		ORC06	1	0	1	1	
		ORC28	38	21	17	-4	-19%
		ORC76	12	9	3	-6	-67%
		ORC77	7	5	2	-3	-60%
		<i>Total Response Count</i>	45	10	35	25	250%
	COSE86	ORC20	1	0	1	1	
		ORC28	9	3	6	3	100%
		ORC74	2	0	2	2	
		ORC76	31	7	24	17	243%
		ORC77	1	0	1	1	
		ORC79	1	0	1	1	
		<i>Total Response Count</i>	16	5	11	6	120%
	COSM81	ORC77	16	5	11	6	120%
		<i>Total Response Count</i>	577	486	91	-395	-81%
COSM82	ORC04	11	7	4	-3	-43%	
	ORC06	3	3	0	-3	-100%	
	ORC28	251	226	25	-201	-89%	
	ORC47	1	1	0	-1	-100%	
	ORC73	1	1	0	-1	-100%	
	ORC76	252	198	54	-144	-73%	
	ORC77	47	41	6	-35	-85%	
	ORC79	11	9	2	-7	-78%	
	<i>Total Response Count</i>	7	5	2	-3	-60%	
COSM83	ORC28	5	3	2	-1	-33%	
	ORC76	2	2	0	-2	-100%	
	<i>Total Response Count</i>	6	6	0	-6	-100%	
COSQ86	ORC28	3	3	0	-3	-100%	
	ORC76	3	3	0	-3	-100%	
	<i>Total Response Count</i>	1	0	1	1		
COST83	ORC77	1	0	1	1		

Fountain Valley	COST84	<i>Total</i>	<i>Response Count</i>	3	0	3	3	
		ORC28		1	0	1	1	
		ORC76		1	0	1	1	
		ORC77		1	0	1	1	
	COST86	<i>Total</i>	<i>Response Count</i>	309	187	122	-65	-35%
		ORC24		1	1	0	-1	-100%
		ORC28		95	62	33	-29	-47%
		ORC36		2	2	0	-2	-100%
		ORC47		1	1	0	-1	-100%
		ORC73		1	1	0	-1	-100%
		ORC74		3	1	2	1	100%
		ORC76		176	101	75	-26	-26%
		ORC77		21	14	7	-7	-50%
		ORC79		9	4	5	1	25%
	Total		Response Count	523	241	282	41	17%
			Incident Count	501	227	274	47	21%
	FVYE31	<i>Total</i>	<i>Response Count</i>	144	75	69	-6	-8%
		ORC66		117	57	60	3	5%
		ORC76		1	0	1	1	
ORC77			25	18	7	-11	-61%	
ORC78			1	0	1	1		
FVYE32	<i>Total</i>	<i>Response Count</i>	336	146	190	44	30%	
	ORC66		4	3	1	-2	-67%	
	ORC70		1	1	0	-1	-100%	
	ORC73		1	1	0	-1	-100%	
	ORC76		3	2	1	-1	-50%	
	ORC77		238	105	133	28	27%	
	ORC78		89	34	55	21	62%	
FVYT31	<i>Total</i>	<i>Response Count</i>	43	20	23	3	15%	
	ORC66		30	13	17	4	31%	
	ORC74		1	1	0	-1	-100%	
	ORC76		1	1	0	-1	-100%	
	ORC77		10	5	5	0	0%	
	ORC78		1	0	1	1		
Garden Grove	Total		Response Count	703	359	344	-15	-4%
			Incident Count	601	319	282	-37	-12%
	GGVE1	<i>Total</i>	<i>Response Count</i>	73	25	48	23	92%
		ORC66		5	4	1	-3	-75%
		ORC78		68	21	47	26	124%
	GGVE2	<i>Total</i>	<i>Response Count</i>	2	0	2	2	
		ORC66		2	0	2	2	
	GGVE21	<i>Total</i>	<i>Response Count</i>	2	2	0	-2	-100%
		ORC78		2	2	0	-2	-100%
	GGVE3	<i>Total</i>	<i>Response Count</i>	181	69	112	43	62%
		ORC66		1	1	0	-1	-100%
		ORC70		1	0	1	1	
		ORC71		53	20	33	13	
		ORC73		5	1	4	3	300%
		ORC77		1	1	0	-1	-100%
	GGVE5	<i>Total</i>	<i>Response Count</i>	120	46	74	28	61%
		<i>Total</i>	<i>Response Count</i>	2	0	2	2	

	GGVE6	ORC66	2	0	2	2		
		<i>Total Response Count</i>	12	6	6	0	0%	
	GGVE7	ORC71	10	5	5	0		
		ORC78	2	1	1	0	0%	
	GGVM1	<i>Total Response Count</i>	276	174	102	-72	-41%	
		ORC66	246	160	86	-74	-46%	
	GGVT1	ORC78	30	14	16	2	14%	
		<i>Total Response Count</i>	109	60	49	-11	-18%	
	GGVE6	ORC66	22	14	8	-6	-43%	
		ORC71	8	4	4	0		
	GGVM1	ORC78	78	41	37	-4	-10%	
		ORC79	1	1	0	-1	-100%	
	GGVT1	<i>Total Response Count</i>	46	23	23	0	0%	
		ORC66	8	4	4	0	0%	
	GGVE6	ORC71	1	1	0	-1	-100%	
		ORC73	2	0	2	2		
	GGVT1	ORC77	1	1	0	-1	-100%	
		ORC78	34	17	17	0	0%	
	Total		Response Count	471	228	243	15	7%
			Incident Count	395	191	204	13	7%
Newport Beach	NPBE62	<i>Total Response Count</i>	1	0	1	1		
		ORC28	1	0	1	1		
	NPBE63	<i>Total Response Count</i>	22	11	11	0	0%	
		ORC04	17	8	9	1	13%	
	NPBE65	ORC28	5	3	2	-1	-33%	
		<i>Total Response Count</i>	2	0	2	2		
	NPBE66	ORC04	2	0	2	2		
		<i>Total Response Count</i>	7	5	2	-3	-60%	
	NPBE67	ORC28	7	5	2	-3	-60%	
		<i>Total Response Count</i>	236	107	129	22	21%	
	NPBE68	ORC04	30	15	15	0	0%	
		ORC28	205	92	113	21	23%	
	NPBM62	ORC76	1	0	1	1		
		<i>Total Response Count</i>	76	38	38	0	0%	
	NPBM63	ORC04	75	37	38	1	3%	
		ORC47	1	1	0	-1	-100%	
	NPBM65	<i>Total Response Count</i>	3	2	1	-1	-50%	
		ORC28	3	2	1	-1	-50%	
	NPBT63	<i>Total Response Count</i>	86	45	41	-4	-9%	
		ORC04	65	32	33	1	3%	
NPBM62	ORC28	21	13	8	-5	-38%		
	<i>Total Response Count</i>	17	8	9	1	13%		
NPBM65	ORC04	12	7	5	-2	-29%		
	ORC28	5	1	4	3	300%		
NPBT63	<i>Total Response Count</i>	21	12	9	-3	-25%		
	ORC04	10	5	5	0	0%		
Orange	ORGE1	ORC28	11	7	4	-3	-43%	
		Total	Response Count	901	501	400	-101	-20%
		Incident Count	855	474	381	-93	-20%	
Orange	ORGE1	<i>Total Response Count</i>	185	77	108	31	40%	
		ORC21	12	6	6	0	0%	

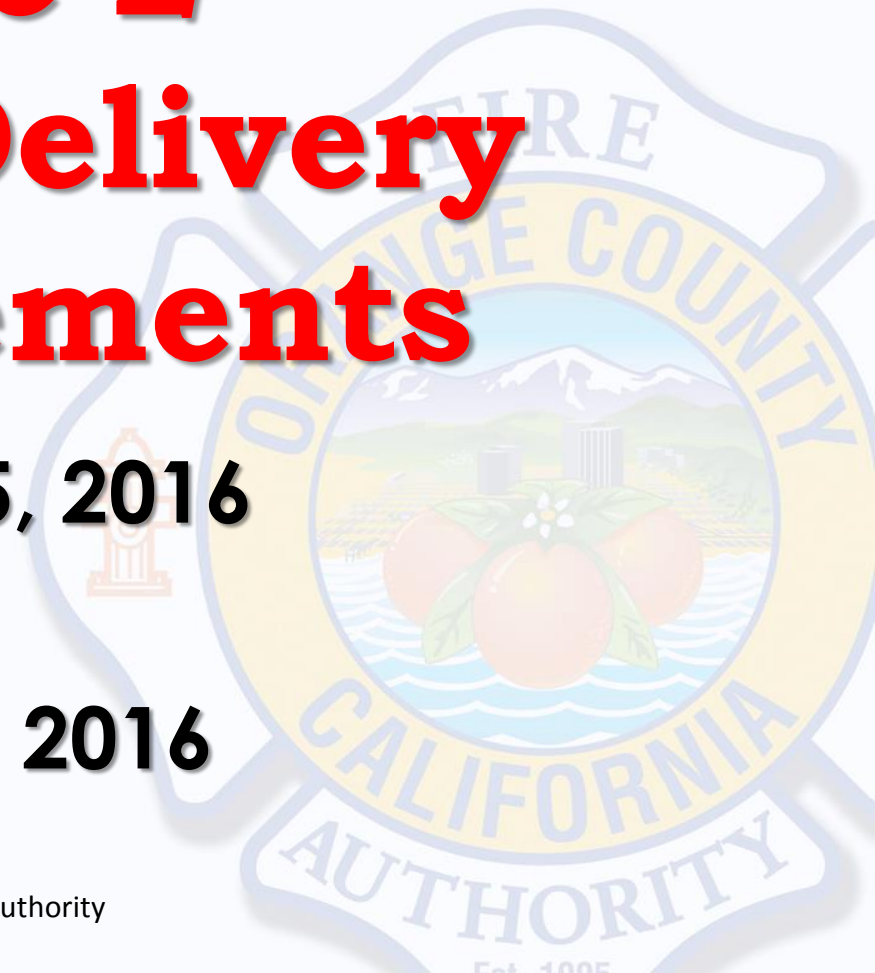
		ORC70	166	68	98	30	44%
		ORC71	4	2	2	0	0%
		ORC72	3	1	2	1	100%
		<i>Total Response Count</i>	<i>11</i>	<i>8</i>	<i>3</i>	<i>-5</i>	<i>-63%</i>
ORGE2		ORC21	7	6	1	-5	-83%
		ORC70	4	2	2	0	0%
ORGE27		<i>Total Response Count</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	
		ORC43	1	0	1	1	
ORGE3		<i>Total Response Count</i>	<i>3</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>100%</i>
		ORC70	2	1	1	0	0%
		ORC71	1	0	1	1	
		<i>Total Response Count</i>	<i>5</i>	<i>4</i>	<i>1</i>	<i>-3</i>	<i>-75%</i>
ORGE307		ORC43	4	3	1	-2	-67%
		ORC55	1	1	0	-1	-100%
		<i>Total Response Count</i>	<i>111</i>	<i>66</i>	<i>45</i>	<i>-21</i>	<i>-32%</i>
		ORC21	101	61	40	-21	-34%
ORGE4		ORC55	1	0	1	1	
		ORC70	9	5	4	-1	-20%
		<i>Total Response Count</i>	<i>185</i>	<i>118</i>	<i>67</i>	<i>-51</i>	<i>-43%</i>
		ORC70	166	107	59	-48	-45%
ORGE5		ORC71	18	10	8	-2	-20%
		ORC75	1	1	0	-1	-100%
		<i>Total Response Count</i>	<i>289</i>	<i>165</i>	<i>124</i>	<i>-41</i>	<i>-25%</i>
		ORC70	13	7	6	-1	-14%
ORGE6		ORC71	275	158	117	-41	-26%
		ORC73	1	0	1	1	
		<i>Total Response Count</i>	<i>40</i>	<i>26</i>	<i>14</i>	<i>-12</i>	<i>-46%</i>
		ORC21	2	1	1	0	0%
ORGE7		ORC43	25	18	7	-11	-61%
		ORC55	10	5	5	0	0%
		ORC70	2	2	0	-2	-100%
		ORC71	1	0	1	1	
		<i>Total Response Count</i>	<i>68</i>	<i>35</i>	<i>33</i>	<i>-2</i>	<i>-6%</i>
		ORC21	12	9	3	-6	-67%
ORGT1		ORC70	46	19	27	8	42%
		ORC71	4	2	2	0	0%
		ORC72	2	2	0	-2	-100%
		ORC75	4	3	1	-2	-67%
		<i>Total Response Count</i>	<i>3</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>100%</i>
		ORC43 Response Count	1	0	1	1	
ORGT8		ORC70 Response Count	1	1	0	-1	-100%
		ORC71 Response Count	1	0	1	1	

Phase 2 Service Delivery Enhancements

February 5, 2016

to

August 4, 2016



Phase 2

Irvine
Lake Forest
Mission Viejo
Santa Ana



GOALS

- 1. Reduce Advanced Life Support (ALS) response times**
- 2. Reduce number of responding units**
- 3. Increase ALS unit availability**
- 4. Reduce response requirements on automatic aid resources**
- 5. Enhance firefighter safety (2 in/2 out)**

GOAL 1: Reduce Advanced Life Support (ALS) response times

CITY	PRE Enhancements Average Response Time	POST Enhancement Average Response Time	PHASE 2 ALS Enhancements
LAKE FOREST (1 station)	8:59	6:20	-29%
MISSION VIEJO (1 station)	9:10	6:37	-28%
<i>Phase 2 totals 13 stations</i>	7:19	5:52	-20%

Overall reduction of 1:27 in ALS response times

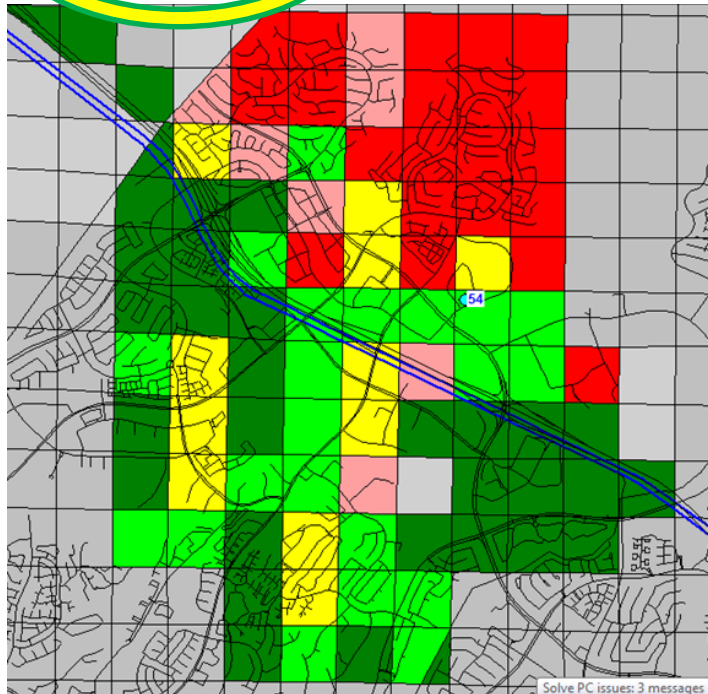
GOAL 2: Decrease number of responding units

Phase 2 and adjacent units	PRE enhancement	POST enhancement	CHANGE
Unit Responses	41,597	33,340	8,257 drop



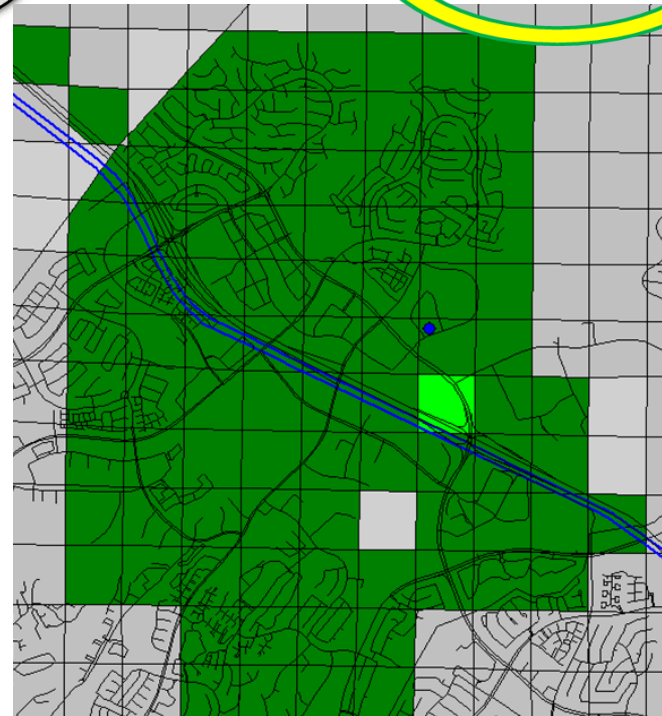
20% drop in total unit responses

GOAL 1 & 2: Decrease ALS response times and units



PRE

Time: 8:59 (2 units)



POST

Time: 6:20 (1 unit)

GOAL 3: Increase depth for second call coverage

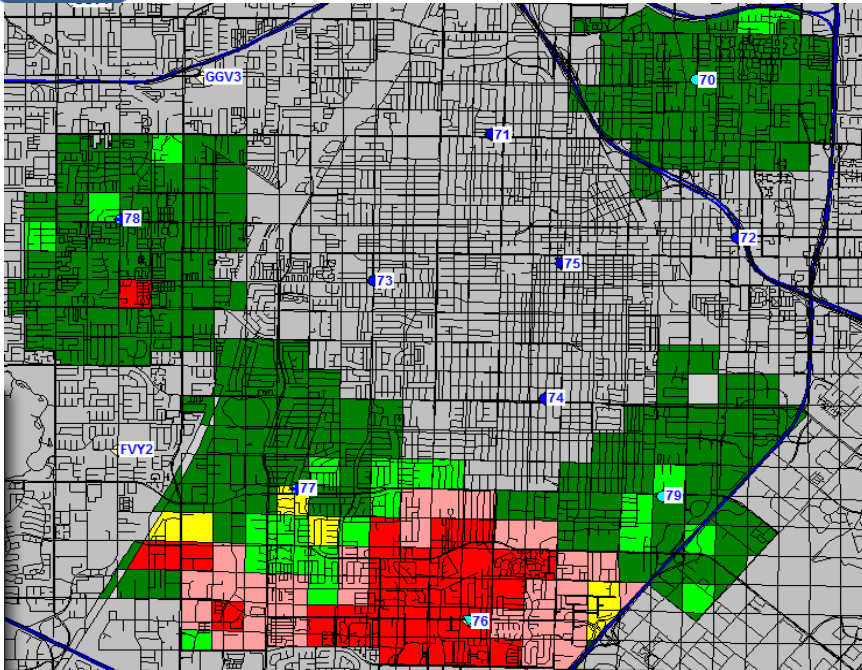
- NEW Paramedic Engines had a **6%** ***INCREASE*** in call volume
- EXISTING Paramedic Engines had a **17%** ***DECREASE*** in call volume as a result



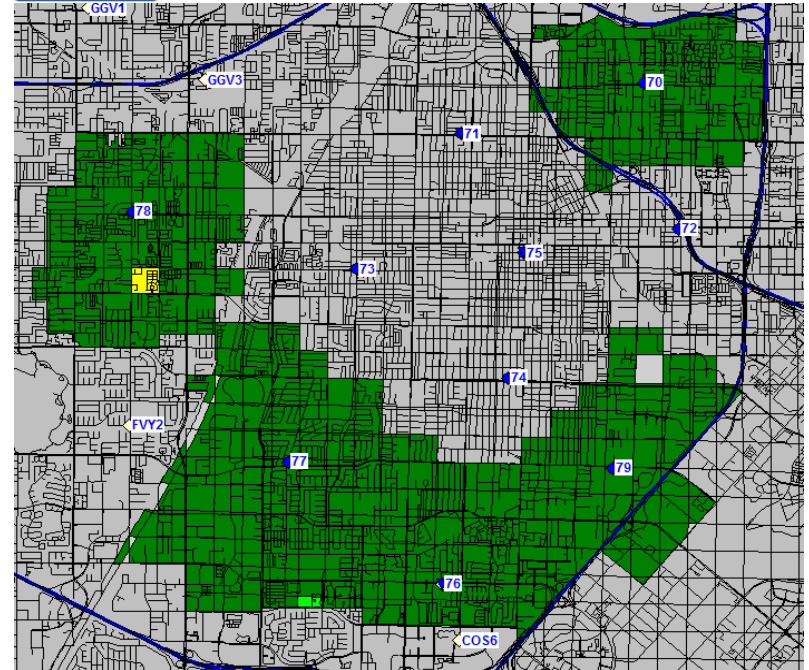
Available for 541 more calls

GOAL 3: Increase depth for second call coverage

PRE



POST



Battalion 9 – Santa Ana

GOAL 4: Decrease response requirements on automatic aid resources

Costa Mesa

53% REDUCTION

Fountain Valley

17% INCREASE

Garden Grove

4% REDUCTION

Newport Beach

7% INCREASE

Orange

20% REDUCTION

GOAL 5: Enhance firefighter safety

- Firefighter safety increased
OSHA compliance (2 in/2 out)



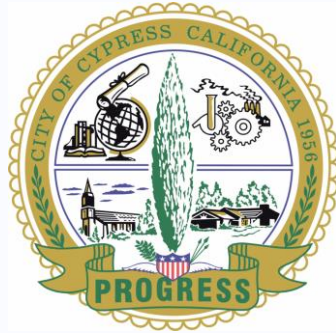
VS.



0:54 reduction for 4 firefighters onscene

Phase 3

Projected start: March 2017



Buena Park
Cypress
Laguna Niguel
Los Alamitos
Placentia
San Clemente
Seal Beach
Tustin