



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: William L McDonald

**SUBJECT: FIRE TECHNOLOGY STATUS
AND NEXT STEPS**

DATE: May 24, 2013

Approved

Date

5/24/13

On March 26, 2013, the City Council approved the 2013-2014 Mayor's March Budget Message which directed the Administration to provide the City Council with the cost and feasibility of updating the Fire Department's technology systems, including global positioning technology system mapping.

BACKGROUND

On May 16, 2013, the Police and Fire departments presented its report on "Resource Deployment and Information Technology." During its presentation, the Fire Department discussed the various systems utilized by the department and described the respective functionalities of these systems including County and national reporting requirements. Additionally, the Department highlighted the challenges it has faced with the implementation of information technology and analytics (e.g. staffing resources). Attached to this memorandum please find information on systems currently in use by the Fire Department.

ANALYSIS

Beginning in late 2012, the Department conducted an analysis of its information needs and resources. By January 2013, the Department completed its analysis which opened up opportunities for reallocation of managerial/analytical positions to create information management and technical positions. The recruitment for a Supervising Applications Analyst was recently completed and recruitment for a Senior Systems Applications Programmer is expected to be completed by July 2013. It is expected that training for these new employees on Fire Department systems would be completed by October 2013. With critical staff on board and trained, a systems implementation work plan is expected to be completed by the last quarter of 2013. The work plan will include analysis and resource requirements for updating hardware and software systems, as well as integration of disparate systems utilized by the Fire Department.

Global Positioning Technology System Mapping

Installation of global positioning technology systems in Fire mobile units would enable Fire response units to instantly access all relevant maps, charts, procedures, guidelines, models, and data. Although global positioning technology systems will be included in the Department's integrated systems plan (estimated completion by October 2013), preliminary information indicates one-time costs for global positioning technology system mapping at \$180,000 to install software systems on all front-line units. At this time, training for Fire personnel has not been determined so training costs are not included in the one-time estimate of \$180,000. In addition, annual licensing for the new global positioning technology systems and for additional licensing costs for the department's records management system is expected to cost \$50,000.

/s/
WILLIAM L. MCDONALD
Fire Chief

For more information on this memorandum please contact Ron D'Acchioli, Deputy Director, at 408-794-6953.

ATTACHMENT

Name of System	System Description and Functionality
Computer Aided Dispatch (CAD)	Incident information/location Recommends assignment company (ies) based on incident type Supports dispatch of companies Maintains incident data
Records Management System	National Fire Incident Reporting (NFIRs) Response Time Performance Incident Data (i.e. incident number, type of incident, location, etc.) Occupancy Information Inspection Records Personnel records (training, certificates)
Timekeeping	Payroll; daily staffing (staffing provided through permanently assigned personnel, relief personnel, and personnel on overtime)
CAD Analyst	"What if" Deployment System Modeling Examples: How would system be impacted by adding or relocating stations? Where should Squads be deployed for maximum City coverage? How will brown outs impact the system?
Live MUM (Move-up Module)	Emergency Resource Management; Move-ups; Dynamic citywide coverage
FileMaker Pro	Various databases (e.g. injury, personnel records)
Patient Care Database	Patient Care Reports
Medical Services Database	Real time emergency medical services response resource monitoring
Training Database	Online training and management National Fire Protection Association training Fire, EMS, Safety, Wildland Mutual Aid, Earthquake Response Air Management