

HFD EMERGENCY ALERTING SYSTEM (EAS) REPLACEMENT TTI PRESENTATION



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BOTTOM LINE UP FRONT

Council Action Request	Spending Authority
Vendor	Motorola Solutions
Purpose	The upcoming council action will appropriate funds and authorize spending authority for a new contract to purchase a new fire station alerting system from Motorola (Mach Alert). Funding for the initial deployment is approved in the FY23 Capital Improvement Plan. Support and maintenance costs will be funded in the Operating Budget for FY25 through FY27. This action will replace the current HFD Emergency Alerting System (EAS) with a more robust Commercial Off The Shelf (COTS) system.
Total Spending Authority Requested	\$3,297,775.17
Term	5 years
MWBE	2.51 %
Primary Department Users	Houston Emergency Center and Houston Fire Department

HFD Emergency Alerting System (EAS) - History



- **What is EAS?** A software application used to notify Fire First Responders of emergency calls for fire and EMS.
- **Who uses EAS?** The primary users of the EAS system are the HFD dispatchers at the Houston Emergency Center and HFD personnel at all Fire Stations.
- The station alerting system is used to inform a fire station or unit of a dispatch, via multiple actions:
 - A text to voice system will announce the dispatch over the station intercom
 - The announcement includes incident type and type of unit(s) to be dispatched
 - Activates the station interior lights
 - Provides the ability to print the dispatch and related map, as needed
 - Sends the alert to the mobile data computer
- **Facts about the current EAS system:**
 - The current EAS system is over 20 years old, based on End-of-Life components, and end of support.
 - Failure of this system can delay Fire and EMS dispatches which risks saving life and property of Houstonians

HFD Emergency Alerting System (EAS) - Future



What is the City seeking in a “next generation” EAS system?

- A more robust Commercial Off The Shelf (COTS) system. Require less customization and more standard features with more frequent feature updates.
- Improved, more intuitive user interface for HFD dispatchers and HFD personnel
- A full system-wide solution for station alerting at 93 Fire Stations with capability of expanding as required
- New digital technology and redundant design



HFD Emergency Alerting System (EAS) - New Motorola Solution (Mach Alert)

Features

- Full-featured fire station alerting solution designed to provide state of the art functionality and reliability
- Designed for rapid response, seamless integration with existing communication systems, robust reliability, redundancy, expandability, and the ability to gracefully migrate into the latest technologies and new features.
- Will provide a scalable, flexible system architecture and the ability to alert Fire Stations from the existing dispatch center.
- This solution will be deployed at all 93 fire stations to provide fire station alerting capability.

Background

- Mach Alert EAS solution has over 16 years of product development with resources dedicated to continuing product Research & Development with a focus on safety and health of the fire fighters.
- Includes over 95 successful deployments with fire departments across the United States that include over 1,400 active fire stations.
- Motorola is committed to ensuring a successful implementation and cutover with a product that will continue to grow and innovate for years to come.

Detailed Expense Breakdown

Requested Spending Authority



Fund	Projected Spend
Capital Improvement Plan (1800)	\$2,500,000
Central Services Revolving Fund (1002)	\$797,775.17

Projected Spend (Funding Year)	Description	Amount
FY23	Hardware/Software	\$893,557.00
	Professional Services/Support and Maintenance	\$1,598,518.00
FY24	Support and Maintenance (Included in Year 1 Cost)	\$0
FY25	Support and Maintenance	\$165,005.55
FY26	Support and Maintenance	\$168,576.19
FY27	Support and Maintenance	\$172,320.69
	Contingency	\$299,797.74
	TOTAL	\$3,297,775.17



Q&A

