

City of Detroit

CITY COUNCIL


GABRIELA SANTIAGO-ROMERO

COUNCIL MEMBER, DISTRICT 6

MEMORANDUM

TO: James White, Police Department, Chief

THRU: Council Member Mary Sheffield, Council President

FROM: Council Member Gabriela Santiago-Romero 

DATE: March 14, 2022

RE: PHS 6.1 Motorola Solutions Radio Contract

The Motorola Solutions contract with the Police Department was originally for 213 Motorola Enhanced APX 6500 7/800 portable mobile and handheld replacement radios, then it was revised to:

- 50 APX Control Head/Mounting Kits
- 303 Motorola Enhanced APX 6500 7/800 Portable Mobile and Handheld Replacement radios

What was the event or reason that prompted this revision, which added to the same total amount of \$1,551,085.60?

- What needs of the Police Department have changed that requires the number of radios units to change?

What kind of deliverables, services, hardware, accessories, and staff are included in this two-way radio and wireless communication equipment contract?

What kind of professional services does this include (extended warranties, engineering, installation, maintenance, repair and training)?

What is the purchase history of Police radios and related equipment within the past 5 years?

How many portable mobile and handheld radios are being added versus replaced? What is the rationale for an additional inventory of radios?

Has there been an internal review of your radio fleet map to evaluate your deployment of equipment?

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- Is every radio assigned to a designated person or vehicle? How many are not assigned?
- How many radios are actively used daily, and how many radios are inactive or standing idle (not working, not active, not transmitting signals, radio silence) for a period of time?
- How many are needed for the purpose of maintaining continuity of operations?

What is the condition and quality of the current radio system we are currently operating with?

- Do these radios operate under the OpenSky system?
- As technology continues to advance, how does this system compare to other radio systems in the market?
- What future technologies are necessary to refresh these radio systems?
- Are you researching and performing feasibility studies to upgrade or replace the radio system infrastructure in the near future?
- If so, what would funding for an overhaul like this take, and what would happen to the system and radios that we currently have?

Please do not hesitate to contact my office if you have any questions by e-mailing Kristin Dayag (Kristin.dayag@detroitmi.gov) and copying Hank Kelley (hank.kelley@detroitmi.gov).

Thank you.

Cc: Honorable Detroit City Council
Louise Jones, City Clerk's Office
Gail Fulton, City Council Liaison



POLICE DEPARTMENT

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March 21, 2022

The Honorable Gabriela Santiago-Romero
Detroit City Council
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 1340
Detroit, Michigan 48226

SUBJECT: PHS 6.1 MOTOROLA SOLUTIONS RADIO CONTRACT

Dear Council Member Santiago-Romero:

In response to your memorandum dated March 14, 2022, the following information is submitted: (It should be noted numbers have been added to assist with responses)

- 1. The Motorola Solutions contract with the Police Department was originally for 213 Motorola Enhanced APX 6500 7/800 portable mobile and handheld replacement radios, then it was revised to:**

50 APX Control Head/Mounting Kits

303 Motorola Enhanced APX 6500 7/800 Portable Mobile and Handheld Replacement radios

What was the event or reason that prompted this revision, which added to the same total amount of \$1,551,085.60?

This is the original number of radios requested; the header was a typographical error.

- What needs of the Police Department have changed that requires the number of radios units to change?**

The number of units in the original request did not change; it was originally prepared in error.

- 2. What kind of deliverables, services, hardware, accessories, and staff are included in this two-way radio and wireless communication equipment contract?**

This purchase includes a radio, control head, microphone, antenna and related harness to install in public safety vehicles. No staff is included.



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3. What kind of professional services does this include (extended warranties, engineering, installation, maintenance, repair and training)?

Purchase includes 5 year warranty, maintenance, repair and training are done by the department.

4. What is the purchase history of Police radios and related equipment within the past 5 years?

Police has replaced the legacy radio equipment for vehicles in conjunction with the city's vehicle replacement plan. We are purchasing newer model radios as vehicles are ordered to eliminate equipment that is over 10 years old. Portable radios are purchased each year in small batches to get rid of the legacy radios that were purchased in 2004. Parts for the legacy radios are no longer produced.

5. How many portable mobile and handheld radios are being added versus replaced? What is the rationale for an additional inventory of radios?

The purchase of these units are all for replacement of older radios that are 10 years or more old. This is done each year with the purchase of new vehicles.

6. Has there been an internal review of your radio fleet map to evaluate your deployment of equipment?

A fleet map determines how the trunked radio system for each user group of an organization is controlled. We deploy talk groups specific to departments within the radio system. We are always making adjustments as needs arise.

- **Is every radio assigned to a designated person or vehicle? How many are not assigned?**

Radios are permanently mounted in public safety vehicles and are tracked by the car code of which the radio is installed. Every member is assigned a portable radio and is responsible for the care of the radio. Inventory varies based on retirements, repairs and new hires.



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- **How many radios are actively used daily, and how many radios are inactive or standing idle (not working, not active, not transmitting signals, radio silence) for a period of time?**

Each officer is assigned a radio that is mandatory to carry. Utilization changes based on the needs of the departments that utilize the system. Multiple agencies outside of Public Safety utilize the radio system in addition to Police, Fire, EMS, and Homeland Security.

- **How many are needed for the purpose of maintaining continuity of operations?**

For Police alone, currently approx. 3400 members and around 1200 police vehicles. This does not include base station radios or specialty units for Police, Fire, Homeland Security, or EMS.

7. What is the condition and quality of the current radio system we are currently operating with?

Radio system had microwave update in 2018 and transmitters updated in 2019.

- **Do these radios operate under the OpenSky system?**

No, we utilize a different system. The Detroit Public Safety Radio system is a 800Mhz P25 trunking radio system which is inter connected to the State of Michigan's statewide radio system.

- **As technology continues to advance, how does this system compare to other radio systems in the market?**

We are partnered with the Michigan Public Safety Communication systems, which is one of the largest in the country. This allows for interoperability throughout the state.



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- **What future technologies are necessary to refresh these radio systems?**

Currently the radio system is up to date. We will continue to work with the State to keep our system up to date.

- **Are you researching and performing feasibility studies to upgrade or replace the radio system infrastructure in the near future?**

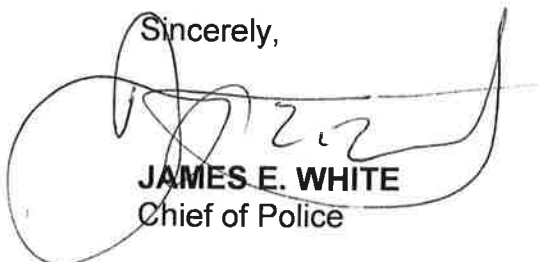
No, we currently work in conjunction with the state and have undergone upgrades over the past several years.

- **If so, what would funding for an overhaul like this take, and what would happen to the system and radios that we currently have?**

We will need to continue to replace legacy Mobile and Portable radios. As departments grow, the need for technology will balance in accordance.

Should you have any additional questions or concerns regarding this matter, please feel free to contact Commander Michael Parish, Chief of Staff in the Office of the Chief of Police at (313) 596-1803, Monday through Friday, 9:00 a.m. until 5:00 p.m.

Sincerely,



JAMES E. WHITE
Chief of Police

JEW/at