

Transportation Committee

For the Metropolitan Council meeting of January 22, 2020

Subject: Light Rail Live Video, Contract 19P306

Proposed Action

That the Metropolitan Council authorizes the Regional Administrator to negotiate and execute a sole source contract with Hitachi Vantara Corporation for the purchase and installation of a new camera surveillance system for 91 Light Rail Vehicles for an amount not to exceed \$1,300,000.

Summary of Committee Discussion/Questions

Metro Transit Rail Operations Manager Dominick Pellegrin, MTPD Project Manager Leah Palmer, and MTPD Sergeant Brooke Blakey presented this item. Sterner asked about the bidding process. Pellegrin said this was sole-source because Hitachi is already in place on the LRT platforms; we share our software with other agencies; other vendors weren't as comprehensive; Hitachi is local to Minnesota; it is non-proprietary so there will be easy integration in the future. Cummings asked if the video will be monitored at all times or it will just be pulled up. Blakey said it will be monitored in real time and officers can access it from their vehicles as well. Metro Transit General Manager Wes Kooistra said monitoring rooms will be set up as well. Cummings asked what the retention practice will be. Palmer said the videos will be retained 7-10 days based on motion, resolution, and it will be subject to data practices policies. Chamblis asked what the marketing and communication plan for these videos are. Kooistra said signage is being discussed right now. Zeran asked where the funding is coming from. Metro Transit Finance Director Ed Petrie said this comes from the Operating Budget, shared 50% by the Council and 50% by the counties.

Motion by Sterner, seconded by Cummings. Motion carried.

Transportation Committee

Meeting date: January 13, 2020

For the Metropolitan Council meeting of January 22, 2020

Subject: Light Rail Live Video, Contract 19P306

District(s), Member(s): All

Policy/Legal Reference: Council Expenditure Policy 3-3, Procurement of Goods and Services

Staff Prepared/Presented: Leah Palmer, Project Manager MTPD 612-349-7232

Dominick Pellegrin, Manager of Rail Operations 612-341-5690

Division/Department: Metro Transit: Police Department & Rail Operations

Proposed Action

That the Metropolitan Council authorizes the Regional Administrator to negotiate and execute a sole source contract with Hitachi Vantara Corporation for the purchase and installation of a new camera surveillance system for 91 Light Rail Vehicles for an amount not to exceed \$1,300,000.

Background

Currently when an incident occurs on a Light Rail Vehicle, the Rail Control Center, Transit Control Center, MTPD, and its partners have no way of seeing in real-time what is occurring.

This camera network will be installed on all 91 of our current Light Rail vehicles. It will replace the hard drive systems on 86 of those vehicles which currently have obsolete Verint hardware on them. The remaining 5 vehicles currently have an Apollo hard drive with which a real-time video system will integrate.

Rationale

This real-time system accomplishes two goals: increasing customer satisfaction and increased safety and security for both riders and employees. Both the Rail Control Center and the Transit Control Center would be able to view live video in order to evaluate LRT passenger needs and provide better information to officers during an emergency response.

Thrive Lens Analysis

The purchase of this system advances the Thrive outcome of equity and livability by providing ongoing safe transportation to all Metro Transit Light Rail riders and Operators regardless of race, ethnicity, economic means or ability. This will all aid in and resolve adverse incidents that may occur during transit service of riders.

Funding

Funding for this purchase is included in the Metropolitan Council approved METRO Light Rail Operating Budget.

Known Support / Opposition

There is no known opposition to this project.




Live Streaming Video on Metro Transit Light Rail Trains

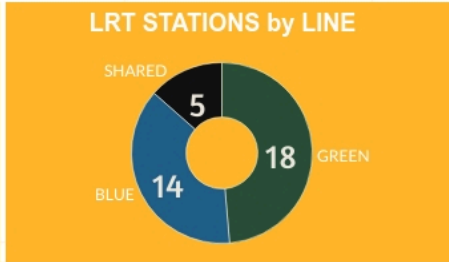


BY THE NUMBERS

25
MILES OF TRACK

210,000
DAILY TRANSIT RIDERS
of which 77,000 are
LRT RIDERS

 **91**
LIGHT RAIL CARS



**NEED FOR
NEW
EQUIPMENT**



OBSOLETE TECHNOLOGY

- **Current system:**
 - End of life
 - No longer supported by manufacturer
 - Standard definition
 - Requires wi-fi to upload video
 - Hard drive must be manually removed



OBSOLETE TECHNOLOGY

Video still from current
camera system.



21ST CENTURY TECHNOLOGY

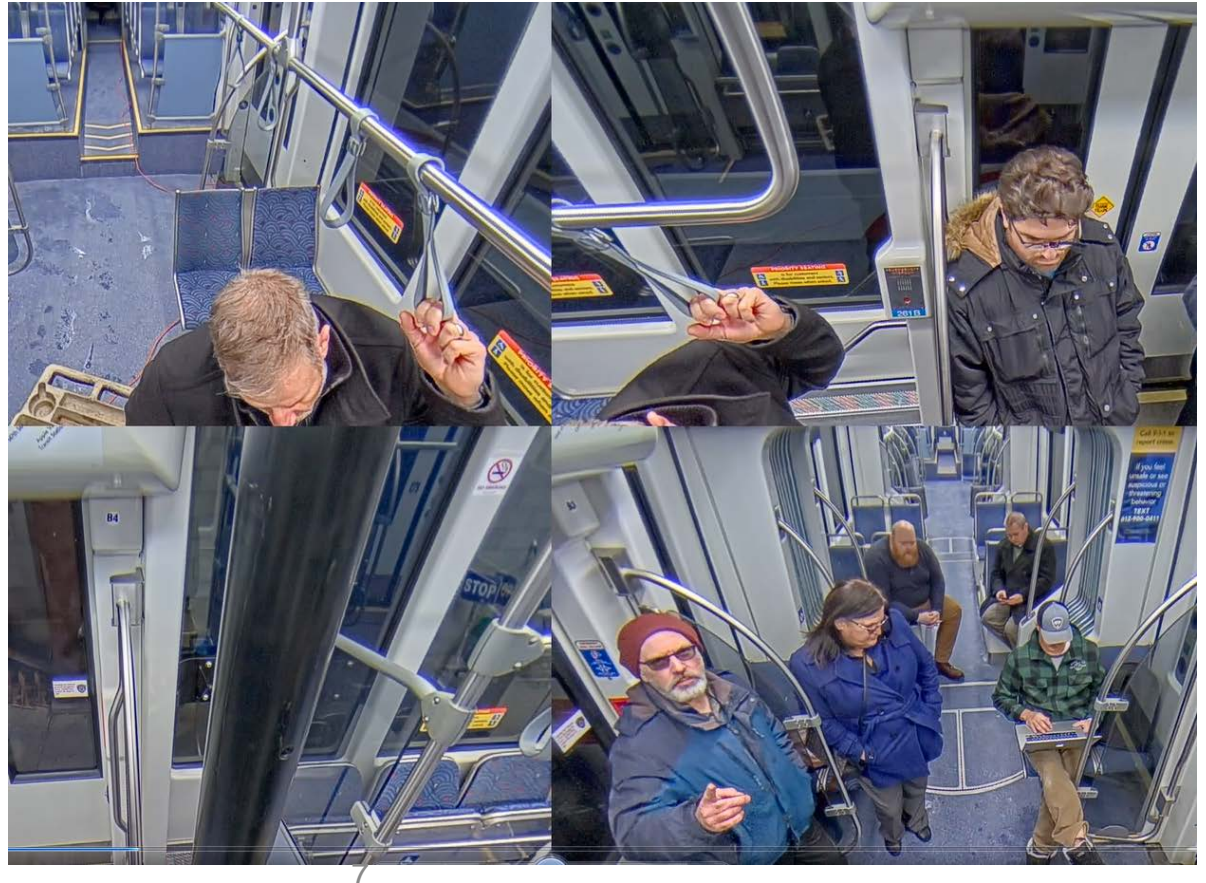
- **Prospective system:**
 - 4K 360-view cameras
 - Extremely high resolution
 - Cellular *or* wi-fi to upload video
 - Cloud-based platform
 - Proof-of-concept



FUTURE TECHNOLOGY

Video still
from new
camera
system

360-view
camera that
is split into 4
frames



Rail Operations

REAL-TIME VIDEO MONITORING INCREASES CUSTOMER SAFETY & SATISFACTION

- **Assess rider response to train delays**
- **Special event rider management**
 - Safe boarding and disembarking
 - Train occupancy- how many customers can we load onto the platform?
 - Example: 15,000 riders in 45 minutes
- **Train cleanliness**
 - Routine cleaning
 - Incident cleanup

Police & Public Safety

REAL-TIME VIDEO MONITORING INCREASES SAFETY & SECURITY FOR RIDERS

- Dispatch appropriate resources for the type of incident
 - *Ambulance assistance*
 - *Back-up officers*
 - *Notification to other police agencies*
- Speed of response needed
- Clearly identify vulnerable adults, homeless, victims and/or suspects prior to arrival
- 27 Text-to-Safety conversations per day
 - *70% originate on Green Line*

**BUSINESS
ITEM
REQUEST**

That the Metropolitan Council authorizes the Regional Administrator to negotiate and execute a sole source contract with Hitachi Vantara Corporation for the purchase and installation of a new camera surveillance system for 91 Light Rail Vehicles for an amount not to exceed \$1,300,000.



Thank you for your time!

Questions & Comments