



**COMMISSION
AGENDA MEMORANDUM**

Item No. 8e

ACTION ITEM

Date of Meeting June 25, 2024

DATE : June 14, 2024

TO: Stephen P. Metruck, Executive Director

FROM: Kenneth Lyles, Dir, Maritime Ops and Security
Krista Sadler, Dir. Technology Delivery, Information & Communication Technology

SUBJECT: Maritime Camera and Infrastructure Replacement (CIP #C801020)

Amount of this request:	\$7,192,000
Total estimated project cost:	\$10,396,000
Estimate for ten-year internet and maintenance:	\$1,000,000

ACTION REQUESTED

Request Commission authorization for the Executive Director to (1) proceed with the Maritime Camera and Technology Infrastructure project; (2) prepare design and construction bid documents for the replacement of camera and technology infrastructure at Maritime sites; (3) procure required hardware, vendor services, licensing, and maintenance services in support of cameras and technology Infrastructure at Maritime sites; (4) use Port labor including Port of Seattle Crews and small and major works on-call contracts; and (5) purchase additional internet bandwidth for increased capacity needs estimated at \$1,000,000 for ten years. The amount of this project request is \$7,192,000. The total estimated project cost is \$10,396,000.

EXECUTIVE SUMMARY

This project replaces and adds Maritime cameras and communications infrastructure at various Maritime facilities; improves the reliability of key devices including security access badge readers, cameras, and communication devices; repairs communication infrastructure; and leverages camera and video management technology to enable Maritime Resources to have better visibility at their many locations. The cameras and infrastructure, some installed over a decade ago, are failing, are not sufficient for current needs, and some devices include technology that presents a cyber security risk to the Port's network.

This authorization includes (1) the design of electrical and communication infrastructure to support approximately 200 cameras and devices; (2) the procurement of equipment to minimize schedule risks from long-lead times; (3) use of Port labor including Port of Seattle Crews and small

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and major works on-call contracts; and (4) contract authorization for increased internet bandwidth requirements estimated at \$1,000,000 over ten years. Authorization for major construction will be sought in a subsequent request.

The capital project is included in the 2024-2028 capital budget and plan of finance for \$3,200,000. Additional funding will be added into the plan of finance beginning in 2025. Recurring costs estimated at \$100,000 per year will be budgeted in the ICT operating budget beginning in 2025.

JUSTIFICATION

Replacing end-of-life hardware and leveraging automation supports the Century Agenda goal of being a highly effective public agency by maintaining and improving technology for Port operations.

- (1) Maritime security cameras and communication infrastructure are failing due to age. Some devices present a cyber-security vulnerability.
- (2) Maritime Security and Maritime Operations have identified key locations necessitating additional surveillance to improve security.
- (3) This project will reduce failure points, improve visibility and video management while increasing reliability for key devices.

Diversity in Contracting

Project staff will work with the Diversity in Contracting Department to identify WMBE opportunities from equipment purchases and construction contracts.

DETAILS

This project will replace almost 200 cameras and associated devices, install approximately 30 additional cameras, and improve technology infrastructure for eleven Maritime facilities including T91, Fishermen’s Terminal, Shilshole Bay Marina, P69, P66, two cruise terminals, and others.

Scope of Work

- (1) Utilize in-house Engineering Design Services to develop designs for the replacement of cameras and electrical and communication infrastructure and revamp infrastructure at where needed.
- (2) Leverage Port Crews to revise infrastructure at T91-Cruise and replace some cameras and communication equipment at various sites.
- (3) Utilize Waterfront Construction Management to revamp failing infrastructure at SBM, install additional cameras at SBM, T91, and FT, and hardwire key devices at T91.
- (4) Configure the cameras to leverage camera automation and optimize the video management system.

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- (5) Perform all work within the constraints of Maritime operations.

Schedule

Commission design authorization	2024 Quarter 2
Design start	2024 Quarter 3
Commission construction authorization	2026 Quarter 4
Major Construction start	2027 Quarter 1
In-use date	Rolling 2025-2028

Cost Breakdown	This Request	Total Project
Design	\$525,000	\$621,000
ICT and Port Labor	\$2,976,000	\$2,976,600
Construction	\$3,610,000	\$6,717,400
Total Capital	\$7,111,000	\$10,315,000
Expense for decommissioning cameras that will not be replaced	\$81,000	\$81,000
Total This Request	\$7,192,000	\$10,396,000

ALTERNATIVES AND IMPLICATIONS CONSIDERED

Alternative 1. Only replace aging equipment and failing infrastructure.

Cost Estimate: \$8,500,000

Pros:

- (1) This alternative is less expensive.

Cons:

- (2) This alternative does not add important surveillance cameras to areas not currently surveilled that are a high priority for Maritime Security and Operations.

This is not the recommended alternative.

Alternative 2 – Replace cameras and communications technology infrastructure at Maritime Facilities and install cameras in priority areas not currently surveilled.

Cost Implications: \$10,315,000.

Pros:

- (1) Outdated, at-risk of failure, and cyber-security risky technology will be decommissioned and replaced by modern equipment.
- (2) Maritime Security and Maritime Operations will have greater visibility at their facilities.
- (3) Key resources are assigned for the duration of the project assuring continuity.

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Cons:

- (1) This alternative only adds the highest priority cameras identified by Maritime Operations. It does not add all the additional cameras identified due to anticipated cost.

This is the recommended alternative.

FINANCIAL IMPLICATIONS

<i>Cost Estimate/Authorization Summary</i>	Capital	Expense	Total
COST ESTIMATE			
Original estimate	\$3,200,000	\$0	\$3,200,000
Current change	\$7,115,000	\$1,081,000	\$7,115,000
Revised estimate	\$10,315,000	0	\$10,315,000
AUTHORIZATION			
Previous authorizations	\$299,000	0	\$299,000
Current request for authorization	\$7,111,000	0	\$7,111,000
Total authorizations, including this request	\$7,410,000	0	\$7,410,000
Remaining amount to be authorized	\$2,905,000	0	\$2,905,000

Annual Budget Status and Source of Funds

The Maritime Camera and Infrastructure Project is included in the 2024- 2028 capital budget and plan of finance as a prospective project within CIP C801020 as a \$3.2M project. Additional capital funding will be added into the plan of finance beginning in 2025. \$81,000 for decommissioning equipment that will not be replaced, will be included in the Maritime Operating Expense Budget for 2025.

Financial Analysis and Summary (Maritime Finance Review)

Project cost for analysis	Total project
Business Unit (BU)	Maritime
Effect on business performance (NOI after depreciation)	NA
IRR/NPV (if relevant)	NA
CPE Impact	NA

Future Revenues and Expenses (Total cost of ownership)

Annual recurring license and maintenance fees, estimated at \$100,000 per year, will be budgeted in the ICT annual operating budget beginning in 2025 and is estimated to cost \$1,000,000 over 10 years.

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ADDITIONAL BACKGROUND

None

ATTACHMENTS TO THIS REQUEST

None

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

None