Replacement of Toll Collection System – Project Authorization

Committee on Capital Planning, Execution, and Asset Management
June 30, 2016
Background on Integrated Toll Collection System (ITCS)

- ITCS was installed in 1997
- Collects over $1.8 billion annually in toll revenues
- 115.9 million transactions annually
- The system is used to:
  - Process tolls electronically
  - Record cash tolls
  - Capture images of vehicles of violators
  - Report revenue and traffic data
  - Control in-lane operations
  - Record equipment maintenance activities
  - Interface with the New York Customer Service Center for electronic toll transactions
Toll Program Goals

- **Prevent Revenue Loss** – Resulting from an antiquated and obsolete system which is 19 years old – Other tolling agencies typically upgrade every 7 to 12 years old

- **Add Key Functionality and Deploy State of the Art Technology** – Current system lacks key audit functions, capability for All-Electronic Tolling, Automatic License Plate Recognition, and ability to be interoperable with other systems

- **Decrease Operating Costs and Unplanned Lane Closures** – Reduce the number of manually identified toll violator license plates, unanticipated maintenance costs, and unplanned lane closures
Overview of Program

Toll Program – Three Major Projects

- **Integrated Toll Collection System Strategic Investments (ITCS SI)**
  - Extends life of key components in the current system until RTCS is implemented

- **Replacement Toll Collection System (RTCS)**
  - Replaces outdated and aged toll collection system to ensure continued revenue collection
  - Provides for audit and law-enforcement hot list capabilities, as well as overall improved system performance
  - Provides a pathway for future national tolling interoperability

- **All-Electronic Tolling (AET)**
  - Allows for Tolls by Mail at the Bayonne Bridge in 2017
Scope of Work – RTCS with Capability for All-Electronic Tolling

**Scope of Work – RTCS**

- Replacement of the ITCS with a new toll collection and audit system capable of AET and automatic license plate recognition – 72 Lanes
- Replacement of aging civil, electrical, and structural infrastructure
- Maintenance of all equipment, hardware and software

**Key RTCS Milestones/Deliverables**

- Contract award – **August 2016**
- Final Design Acceptance – **July 2018**
- Construction start – **Aug. 2018**
- System-wide Operational Acceptance Test – **Starts December 2020**
Requested Actions

Authorize the Replacement Toll Collection System (RTCS) with Capability for All-Electronic Tolling (AET) Project - $170.1M

- Award of Contract for RTCS Design and Implementation to Kapsch TrafficCom IVHS Inc. - $73.5M
- Extend and Increase Contract with Atkins Architecture and Engineering for Continued Program Management Services until December 2021 - Four-year extension - $7.5M
- Extend and Increase Contract with Traffic Technologies Inc. for continued technical services until December 2021 - Four-year extension - $4.1M

Authorize the Post-Implementation RTCS Maintenance - $83.7M

- Award of Contract for RTCS Maintenance for a six-year period to Kapsch - $32.3M
- Authorize $10M of Net Cost Work
Economic Impact

740 job-years

$44 million in wages

$255 million in economic activity
Project Cost/Schedule

- **Project Cost:** $170.1 Million
  - Construction /Design/Build: $70.8 M
  - Planning/engineering/support:
    - Staff Costs: $21.2 M
    - Consultant Costs: $29.8 M
  - Other Support Services: $0.2 M
  - Contingency: $17.0 M
  - Agency Allocation: $31.1 M
    *(Insurance, Administration, Financial expenses):*

- **Construction Duration:** Q3 2018 – Q4 2020

- **Maintenance Cost:** $83.7 Million

- **Maintenance Duration:** 12 years