

PUGET SOUND REGIONAL COUNCIL PRIORITY PROJECT LIST

NARRATIVE PROJECT INFORMATION - October 2011

Due to Peter Heffernan (peter.heffernan@kingcounty.gov) no later than close of business Wednesday October 12.

Project Sponsor: *King County*

Project Name: *King County Regional Signal Operations*

Project Location: *Throughout King County: Various Locations*

What type of project is it: Support Centers Corridors Serving Centers

Plan Consistency:

- Transportation 2040 project number: N/A
- Is the project consistent with the Transportation 2040: Yes No

Project Description - No more than two full page - (see evaluation criteria for information to include):

- Briefly describe the project

The King County Regional Signal Operations Project funds signal coordination and day-to-day operation for 5 cities and unincorporated King County. King County currently operates the Cities' signals but not through a central system or from the King County Traffic Control Center. The ability to monitor and operate from the KC Traffic Control Center improves efficiencies for each jurisdiction by utilizing existing infrastructure paid for using federal grant funding. With utilization of the KC Traffic Control Center, existing signal control software systems, camera system and IT and operations staff, one facility will be utilized to operate and monitor saving costs for each City and the County.

This funding will provide equipment to integrate the Cities signals into the existing King County Central Systems, upgrade 20% of the Cities' signal controllers and cabinets and provide communication to the KC Traffic Control Center to several of the Cities' corridors. This project will also provide funding to the Cities for coordinated timing plans for 5 corridors per year, and funding to the County to maintain the communication to the Cities and to monitor and operate from the KC Traffic Control Center.

The KC Traffic Control Center has the ability to allow each jurisdiction full monitoring and operation of their signals and cameras. But will provide one location to house all servers. Cost includes:

10 controllers and cabinets per city: \$250,000 x 5 cities= \$1,25 M

Communication to City: \$100,000 x 5 = \$500,000

TCC Operations: 2.0 FTE for 3 years: \$600,000

TCC Equipment Upgrades/maintenance: \$70,000/year= \$210,000

Total: **\$2,560,000** for 3 years.

- What is the intended outcome & benefit

This project would fully implement existing infrastructure, ITS equipment and services that King County implemented with grant funding from previous projects by fully implementing traffic control. The project will improve signal coordination along City corridors and improve operational efficiencies. Once the project is implemented, operation of the corridors will be centralized which will reduce the individual maintenance and operation costs. Ultimately, this project will provide efficiencies in the operation and maintenance of the Cities' signals.

Project Status & Timeline

Where is the project at in development? The County currently has communication to SeaTac and is operating one corridor from the KC Traffic Control Center. Shoreline is soon to be on-line, but the Cities are paying for each incident and each timing plan as they come up. If funded, some operating funds could be expended immediately as well as the controller/cabinet upgrades.

What is the timeline for this project from start to completion? The project can be designed and implemented in 24 months, with operation funding for 36 months.

Pre-Design: 6 months: January 1, 2013 to July 1, 2013

Design: 12 months, July 1, 2013 to December 1, 2013

Construction procurement: 0 to 18 months (Can start immediately) January 1, 2013 to July 1, 2014

Construction: January 1, 2014 to July 1, 2014

Operation Funding: January 1, 2014 to December 31, 2016