



## Motion No. M2019-81

### Sole-Source Contract Modification for Operational Reporting Technology Tools

Meeting:	Date:	Type of action:	Staff contact:
Rider Experience and Operations Committee	07/25/2019	Final action	Bonnie Todd, Executive Director of Operations <b>Brian de Place, Director of Support Services</b>

### Proposed action

Authorizes the chief executive officer to execute a sole-source contract modification with Adventag, LLC. to provide operational reporting services for Link light rail in the amount of \$342,144 for a total authorized contract amount not to exceed \$934,504.

### Key features summary

- In 2008, Adventag, LLC developed the operational reporting technology to draw data from Link's Supervisory Control and Data Acquisition system, known as SCADA, as well as other ancillary sources of data, such as automatic passenger counters (APCs) and vehicle maintenance records.
- Sound Transit uses operational reporting technology to extract and compile data in order to:
  - Manage daily oversight of light rail operations;
  - Provide regular public performance reports, such as monthly ridership and system performance metrics; and
  - Comply with the Federal Transit Administration's National Transit Database reporting requirements, required of all federal fund recipients.
- In 2015, the Board approved a new sole source agreement with Adventag LLC to develop a new operational reporting system because the Link SCADA system was being replaced with a new SCADA system to accommodate the University Link and the Angle Lake Link extensions.
- After delivery of the reporting system, Adventag LLC continued to provide on-going support for the Link reporting system to maintain data quality, adapt to changes in source system configurations, and maintain compliance with FTA National Transit Database reporting requirements.
- In May 2019, the Board approved new Operations Performance Reporting Software that will replace the existing Link reporting system supported by Adventag, LLC. The new Operations Performance Reporting Software will accommodate future changes to Link service as new extensions open and provide a more scalable solution for Sound Transit's growing regional network of services.
- The transition to the new Operations Performance Reporting Software system will begin with Link as the first mode of service and is scheduled for completion with the start of pre-revenue testing for the Northgate extension.
- This vendor will continue to maintain the existing Link SCADA reporting system and will support the transition to the new Operations Performance Reporting system.

- The modification to the contract with Adventag, LLC funds a longer than originally anticipated need for system support and a higher level of effort to transition from the existing reporting system during the development phase of the new Operations Performance Reporting Software.
- After transition to the new Operation Performance Reporting Software, the sole-source contract with Adventag, LLC will no longer be needed.

## **Background**

The Link reporting system was developed and installed by Adventag in 2008 prior to the initial segment opening in 2009. The reporting system provides a variety of operational data that is needed for managing the system, creating performance reporting, and fulfilling federal requirements for National Transit Database reporting as well as providing various ad-hoc reports to respond to internal and external requests for Link information. It is used to calculate operational metrics (on-time performance, headway, ridership, miles, hours), maintenance (APC fleet, vehicle location monitoring, track circuit performance, bus delays), and performance (scheduled, actual, missed, special trips, as defined in the inter-governmental agreement with King County Metro, the operator of the system).

In 2015 the Board approved a new sole source contract with Adventag to develop a new reporting system. This was needed because the Link SCADA system, which controls train operations and other key elements of the railroad, was being replaced by a new SCADA system to accommodate the University Link and Angle Lake extensions. The contract was extended in 2017 in order to accommodate the final acceptance of the SCADA system and any associated changes.

With the Link extensions in place, there has been a large continued increase in the need for ad hoc analysis and the creation of a more diverse range of reports. Analysis of the higher than expected Link ridership, the addition of three car trains and planning for potential changes in the Downtown Seattle Transit Tunnel have also contributed to higher costs for this vendor. The additional data volumes have also necessitated adjustments to speed up reporting processing times which has resulted in increased budget spend.

The additional funding for this vendor will help support the transition from the existing reporting system to the new Operations Performance Reporting system, which will consume and report data for all modes that Sound Transit operates, including Link. The Operations Performance Reporting system was approved by the Rider Experience and Operations Committee on May 2, 2019.

Work will be performed by task as assigned by in-house staff. The contract included five one-year options to allow for a limited amount of post implementation maintenance support, which have been executed to go through June 2021.

## **Procurement information**

A sole source contract award is being utilized for this procurement because of substantial duplication costs that would not be recovered through a competitive procurement. This action eliminates the need for Sound Transit to develop new custom solutions requiring significantly more time, effort, and cost to maintain.

Adventag is uniquely positioned to accomplish the work within the available schedule. The Link operational reporting technology tools contain embedded logic that is unique to Sound Transit and that took more than a year to develop, test and certify. The custom built logic of data extrapolation has been reviewed and approved by the FTA.

A notice of non-competitive procurement posted on June 27, 2019 received no responses from interested vendors.

## Fiscal information

The proposed action will amend the current contract by \$342,144, of which \$92,160 will be spent in 2019, for a new total authorized contract amount not to exceed \$934,504 and will be funded from the Services category within the Operations department's annual operating budget. The Services category budget is \$76,846,533, of which a total \$138,240 is estimated to be spent for the contract in 2019 (YTD spend of \$46,080 and estimated spending for the rest of 2019 of \$92,160) and is within the agency's budget authority. After approval of this action, the remaining annual budget amount will be used to fund other department expenditures anticipated in the 2019 annual budget.

Funding the additional years of the contract will be included in future annual budget requests.

### Operations

(in thousands)

Cost Category	2019 Annual Operating Budget <sup>1</sup>	YTD Actuals <sup>2</sup>	This Action (Current Year Impact Only)	YTD Actuals Plus Action (Current Year Only)	Remaining Annual Operating Budget
Salaries and Benefits	\$23,515	\$9,933	\$	\$9,933	\$13,582
Services	76,847	27,183	92	27,276	49,571
Materials and Supplies	11,340	5,551		5,551	5,788
Utilities	5,868	2,347		2,347	3,521
Purchased Trans Services	196,186	82,306		82,306	113,881
Miscellaneous	3,541	638		638	2,903
Leases and Rentals	8,735	4,422		4,422	4,313
<b>Total Annual Operating Budget</b>	<b>\$326,032</b>	<b>\$132,382</b>	<b>\$92</b>	<b>\$132,474</b>	<b>\$193,558</b>

Contract Spending Plan	Forecasted Spend for Remainder of			Total
	Spending to Date <sup>3</sup>	2019	Future Spending	
Adventag, LLC	\$570	\$92	\$273	\$935

Contract Detail	Board Approved Contract Value	Proposed Action	Proposed Revised Board Approved Contract Value
Adventag, LLC	\$592	\$342	\$935
Contingency			
Estimated Taxes			
<b>Contract Amount - Total</b>	<b>\$592</b>	<b>\$342</b>	<b>\$935</b>
Percent Contingency	0%	0%	0%

#### Notes:

<sup>1</sup>2019 Annual Operating Budget is located on page 135 of the Adopted Budget book.

<sup>2</sup>YTD Actuals as of May 31, 2019.

<sup>3</sup>Spending to Date as of May 31, 2019.

## Disadvantaged and Small Business Participation

Not applicable to this action.

## Public involvement

Not applicable to this action.

## Time constraints

A one month delay would significantly affect Sound Transit's ability to maintain continuity of operations and comply with FTA reporting requirements needed to receive federal funds.

## **Prior Board/Committee actions**

Motion No. M2017-26: Authorized the chief executive officer to execute a sole-source contract with Adventag, LLC for operational reporting services on Link light rail with five one-year options for a total authorized contract amount not to exceed \$592,360.

Motion No. M2015-44: Authorized the chief executive officer to execute a sole-source contract with Adventag, LLC for operational reporting services on Link light rail with five one-year options for a total authorized contract amount not to exceed \$385,000.

Motion No. M2019-43: Authorizing the chief executive officer to execute a contract with Estrada Consulting, Inc. to provide operations performance reporting system replacement software in the amount of \$5,000,000, contingent upon Board approval to amend the adopted 2019 Budget through Resolution No. R2019-13, plus applicable taxes.

---

**Environmental review** – KH 7/11/19

**Legal review** – AJP 7/12/19



## Motion No. M2019-81

A motion of the Rider Experience and Operations Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a sole-source contract modification with Adventag, LLC. to provide operational reporting services for Link light rail in the amount of \$342,144 for a total authorized contract amount not to exceed \$934,504.

### Background

The Link reporting system was developed and installed by Adventag in 2008 prior to the initial segment opening in 2009. The reporting system provides a variety of operational data that is needed for managing the system, creating performance reporting, and fulfilling federal requirements for National Transit Database reporting as well as providing various ad-hoc reports to respond to internal and external requests for Link information. It is used to calculate operational metrics (on-time performance, headway, ridership, miles, hours), maintenance (APC fleet, vehicle location monitoring, track circuit performance, bus delays), and performance (scheduled, actual, missed, special trips, as defined in the inter-governmental agreement with King County Metro, the operator of the system).

In 2015 the Board approved a new sole source contract with Adventag to develop a new reporting system. This was needed because the Link SCADA system, which controls train operations and other key elements of the railroad, was being replaced by a new SCADA system to accommodate the University Link and Angle Lake extensions. The contract was extended in 2017 in order to accommodate the final acceptance of the SCADA system and any associated changes.

With the Link extensions in place, there has been a large continued increase in the need for ad hoc analysis and the creation of a more diverse range of reports. Analysis of the higher than expected Link ridership, the addition of three car trains and planning for potential changes in the Downtown Seattle Transit Tunnel have also contributed to higher costs for this vendor. The additional data volumes have also necessitated adjustments to speed up reporting processing times which has resulted in increased budget spend.

The additional funding for this vendor will help support the transition from the existing reporting system to the new Operations Performance Reporting system, which will consume and report data for all modes that Sound Transit operates, including Link. The Operations Performance Reporting system was approved by the Rider Experience and Operations Committee on May 2, 2019.

Work will be performed by task as assigned by in-house staff. The contract included five one-year options to allow for a limited amount of post implementation maintenance support, which have been executed to go through June 2021.

- In 2008, Adventag, LLC developed the operational reporting technology to draw data from Link's Supervisory Control and Data Acquisition system, known as SCADA, as well as other ancillary sources of data, such as automatic passenger counters (APCs) and vehicle maintenance records.
- Sound Transit uses operational reporting technology to extract and compile data in order to:
  - Manage daily oversight of light rail operations;
  - Provide regular public performance reports, such as monthly ridership and system performance metrics; and
  - Comply with the Federal Transit Administration's National Transit Database reporting requirements, required of all federal fund recipients.

- In 2015, the Board approved a new sole source agreement with Adventag LLC to develop a new operational reporting system because the Link SCADA system was being replaced with a new SCADA system to accommodate the University Link and the Angle Lake Link extensions.
- After delivery of the reporting system, Adventag LLC continued to provide on-going support for the Link reporting system to maintain data quality, adapt to changes in source system configurations, and maintain compliance with FTA National Transit Database reporting requirements.
- In May 2019, the Board approved new Operations Performance Reporting Software that will replace the existing Link reporting system supported by Adventag, LLC. The new Operations Performance Reporting Software will accommodate future changes to Link service as new extensions open and provide a more scalable solution for Sound Transit's growing regional network of services.
- The transition to the new Operations Performance Reporting Software system will begin with Link as the first mode of service and is scheduled for completion with the start of pre-revenue testing for the Northgate extension.
- This vendor will continue to maintain the existing Link SCADA reporting system and will support the transition to the new Operations Performance Reporting system.
- The modification to the contract with Adventag, LLC funds a longer than originally anticipated need for system support and a higher level of effort to transition from the existing reporting system during the development phase of the new Operations Performance Reporting Software.
- After transition to the new Operation Performance Reporting Software, the sole-source contract with Adventag, LLC will no longer be needed.

## Motion

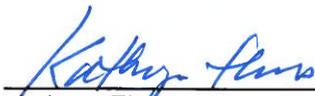
It is hereby moved by the Rider Experience and Operations Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a sole-source contract modification with Adventag, LLC. to provide operational reporting services for Link light rail in the amount of \$342,144 for a total authorized contract amount not to exceed \$934,504.

APPROVED by the Rider Experience and Operations Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on July 25, 2019.



Paul Roberts  
Rider Experience and Operations Chair

Attest:



Kathryn Flores  
Board Administrator