

MOTION NO. M2014-30**Task order with Pierce Transit to replace existing mobile two-way radios on Sound Transit buses operated by Pierce Transit**

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:
Operations and Administration Committee	07/17/2014	Final Action	Bonnie Todd, ED, Operations Dave Turissini, Bus Operations Manager

PROPOSED ACTION

Authorizes the chief executive officer to execute a task order under an existing agreement with Pierce Transit to purchase and install replacement two-way radios, including spares, on Sound Transit owned buses operated by Pierce Transit in the amount of \$553,240, with a 5% contingency of \$27,662, for a total authorized task order amount not to exceed \$580,902.

KEY FEATURES SUMMARY

- Pierce Transit needs to upgrade and replace their existing radio system in order to be compliant with new Federal Communications Commission (FCC) radio frequency changes effective January 1, 2017. The radio system provides basic two-way voice communication between buses, dispatchers and street supervisors.
- Pierce Transit's project is part of a larger Pierce County radio upgrade involving public agencies in the county, including emergency service providers.
- The radio equipment has been advertised and competitively procured as part of the Western States Contracting Alliance (WSCA) contract.
- The project includes 133 Motorola APX Voice Mobile Radios (including 20 spares) at a unit cost of \$3,706, plus 9.4% sales tax. Total cost for installation labor is estimated at \$13,961. This task order is timed to take advantage of pricing discounts provided by WSCA for early purchase.
- As part of Pierce County's new system, the new radios will provide coverage well into King County and will allow for interoperability with other Pierce County agencies.
- Pierce Transit will cover costs associated with infrastructure improvements to their transit base. Sound Transit is paying for its proportionate share of the radios used in operation, including mobiles, spares, and handheld radios.
- Contingency amount of \$27,662 is to cover any unforeseen costs associated with installation of the new radios.

BACKGROUND

In 2008 Pierce Transit had to replace their existing 900MHz system with a newer 800MHz system because their 900MHz system was outdated and failing. In 2013 the FCC published new frequency requirements that go into effect on January 1, 2017. This new requirement makes it necessary for 800MHz systems to digitally divide down within the frequency spectrum to make room for more frequencies within that bandwidth. Pierce Transit's 800MHz radios do not currently have the necessary digital capability to perform this function and will be obsolete, so they need to upgrade and replace their existing radio system in order to be compliant with new FCC requirements.

As part of WSCA, the State of Washington went out as the lead for a blanket radio bid, and Motorola was the lowest bidder. The pricing in this action reflects a 20% discount for early purchase and a 10% discount from Motorola for a high-volume purchase. The discounts were applied to the bid price from the state contract.

This action to purchase radios for Sound Transit buses is part of a larger Pierce County radio upgrade involving public agencies in the county, including emergency service providers. The radio system funded through this action provides basic two-way voice communication between buses, dispatchers and street supervisors. If this action is approved, Sound Transit expects to receive the new radios in the third quarter of 2014, and the radios are expected to be installed in Sound Transit owned buses operated by Pierce Transit in third quarter 2014.

FISCAL INFORMATION

This action authorizes the purchase of 133 radios in order to meet FCC mandated radio frequency changes taking effect January 1, 2017. The early purchase of these radios in advance of the effective date ensures equipment compliance and availability to meet the requirement and allow taking advantage of manufacturer discounts extended to early purchasers.

The early purchase and volume discounts extended to this transaction result in a total savings of \$211,261 from the WSCA list price, before contingency.

Pierce County Mobile Communications Budget Table

Project budget	2014 TIP	Commitments to Date	Proposed Action	Commitment s Plus Action	Uncommitted/ (Shortfall)
Agency Administration	-	-	-	-	-
Preliminary Engineering	-	-	-	-	-
Final Design	-	-	-	-	-
3rd Party	-	-	-	-	-
Right of Way	-	-	-	-	-
Construction	1,000	-	581	581	419
Construction Management	-	-	-	-	-
Vehicles	-	-	-	-	-
Contingency	-	-	-	-	-
Total Project Budget	\$ 1,000	\$ -	\$ 581	\$ 581	\$ 419
Phase Detail					
Construction					
Pierce County	1,000	-	581	581	419
Total Phase	\$ 1,000	\$ -	\$ 581	\$ 581	\$ 419
Contract Detail					
	Board Approvals to Date	Current Approved Contract Status	Proposed Action	Proposed Total for Board Approval	
Western State Contracting Alliance	-	-	553	553	
Contingency			28	28	
Total Contract Amount	\$ -	\$ -	\$ 581	\$ 581	
Percent Contingency	0%	0%	5%	5%	

Notes:

Amounts are expressed in Year of Expenditure \$000.

Board Approvals = Committed to-date + Contingency, and includes pending Board Actions.

Project budget is located on page 110 of the 2014 Transit Improvement Plan.

SMALL BUSINESS/DBE PARTICIPATION

Sound Transit promotes and encourages small business participation, which also includes Disadvantaged Business Enterprises (DBEs). Small Business and DBE goals are based upon an examination of subcontracting opportunities contained in the work of this contract and the number of Small Businesses/DBEs available to perform such subcontracting work.

This action is part of a radio upgrade competitively procured via the Western States Contracting Alliance (WSCA) contract by Pierce County to assure compliance with Federal Communications Commission (FCC) radio frequency changes effective January 1, 2017 and for which Sound Transit is paying its proportionate share. Any determination and administration of Small Business/DBE participation would be the sole responsibility of Pierce Transit.

PUBLIC INVOLVEMENT

Not applicable to this action.

TIME CONSTRAINTS

A one month delay would not create a significant impact to the project schedule.

PRIOR BOARD/COMMITTEE ACTIONS

Motion No. M2007-78: Authorized the chief executive officer to execute an agreement with Pierce Transit to purchase and install a new radio-CAD/AVL communications system for the Sound Transit bus fleet operated by Pierce Transit for a total agreement amount not to exceed \$5,720,000.

ENVIRONMENTAL REVIEW

JI 4/14/2014

LEGAL REVIEW

JW 4/25/2014

MOTION NO. M2014-30

A motion of the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a task order with Pierce Transit to purchase and install replacement two-way radios, including spares, on Sound Transit owned buses operated by Pierce Transit in the amount of \$553,240, with a 5% contingency of \$27,662, for a total authorized task order amount not to exceed \$580,902.

BACKGROUND:

In 2008 Pierce Transit had to replace their existing 900MHz system with a newer 800MHz system because their 900MHz system was outdated and failing. In 2013 the FCC published new frequency requirements that go into effect on January 1, 2017. This new requirement makes it necessary for 800MHz systems to digitally divide down within the frequency spectrum to make room for more frequencies within that bandwidth. Pierce Transit's 800MHz radios do not currently have the necessary digital capability to perform this function and will be obsolete.

This action to purchase radios for Sound Transit buses is part of a larger Pierce County radio upgrade involving public agencies in the county, including emergency service providers. The radio system funded through this action provides basic two-way voice communication between buses, dispatchers and street supervisors. If this action is approved, Sound Transit expects to receive the new radios in the third quarter of 2014, and the radios are expected to be installed in Sound Transit owned buses operated by Pierce Transit in third quarter 2014.

As part of the Western States Contracting Alliance (WSCA), the State of Washington led the bidding process and Motorola was the lowest bidder. The pricing in this action reflects a 20% discount for early purchase and a 10% discount from Motorola for a high-volume purchase. The discounts were applied to the bid price from the state contract.

The project includes 133 Motorola APX Voice Mobile Radios (including 20 spares) at a unit cost of \$3,706, plus 9.4% sales tax. Total cost for installation labor is estimated at \$13,961. This task order is timed to take advantage of pricing discounts provided by WSCA for early purchase, and the contingency amount of \$27,662 is to cover any unforeseen costs associated with installation of the new radios. Pierce Transit will cover costs associated with infrastructure improvements to their transit base.

MOTION:

It is hereby moved by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a task order with Pierce Transit to purchase and install replacement two-way radios, including spares, on Sound Transit owned buses operated by Pierce Transit in the amount of \$553,240, with a 5% contingency of \$27,662, for a total authorized task order amount not to exceed \$580,902.

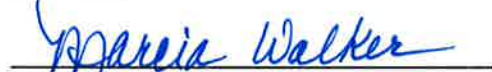
APPROVED by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on July 17, 2014.



Paul Roberts

Operations and Administration Committee Chair

ATTEST:



Marcia Walker

Board Administrator