

To: Board of Directors

Date: 3/5/2012

From: Anne Muzzini, Director of Planning & Marketing

Reviewed by:

SUBJECT: ITS Project Change Order

Background:

In February of 2011 the Board approved funding for an Intelligent Transportation System that included replacement of the radio/ radio control system, replacement of the CAD/AVL system, and a new passenger information system (BusTime). The budget amount approved was \$900,000 with the Clever Devices contract amount specified as not to exceed \$800,000.

In September of 2011 the Board approved an increase in the project cost to purchase routers instead of modems and to fund the additional cost (estimated at \$54,000) with Prop 1B security funds. This upgrade will enable WiFi and live streaming from onboard cameras in the future.

Intelligent Vehicle Network (IVN)

The onboard computers that run the CAD/AVL, radio controller, automatic passenger counting (APC) system, voice announcement, and the new Bus Time system are called the IVN's (Intelligent Vehicle Network). There are 121 IVN's in the fixed route fleet; 57 IVN3's (the newest computer with color control screen) and 64 IVN2's (2002 computers with smaller black and white control screen). The control screens are used by the driver to log on and to enter passenger fare information. The IVN2's will need to be upgraded to run the new software being installed and the cost for this was included in the Clever contract (\$985 each, \$63,040 total).

Summary of Issues

Rather than upgrade the IVN2's, staff now recommends that they be replaced with IVN3's so that the on board computers and the display screens are consistent throughout. The additional cost to the project and to the Clever Devices contract will be \$96,000.

Replacing the IVN2's is recommended because the 2002 computers are 10 years old and despite refurbishing will never be as good as a new IVN3. If we replace the IVN2's the final ITS implementation result in a total upgrade of the onboard computer system. If not, then 64 buses will have 2002 computers and old style monitors.

Staff is confident that the price is reasonable given a May 2011 quote for new IVN3's of \$9,000 apiece. The price given as part of the ITS project is only \$2,485 apiece. (The \$96,000 add-on plus the \$63,040 upgrade cost budgeted equals \$159,040. This divided by 64 units equals \$2,485 each.)

Recommendation:

The O&S Committee recommends that the Board increase the Clever Devices contract by \$96,000 to replace the IVN2's instead of upgrading them. The change represents an increase of 12% over their contract amount of \$771,874.

Financial Implications:

There are sufficient capital funds for the additional expense and there is no impact on the operating budget. The ITS project accounting is shown below.

ITS Project Summary	
Board Authorization	
Original Project Budget	\$900,000
Increase for Routers	\$54,000
Total	\$954,000
Cost	
Clever Contract (w/o 3rd yr maint)	\$771,874
Routers	\$145,200
Servers spares and other equip	\$36,926
Total Cost	\$954,000
IVN 2 Replacement	\$96,000
Total Cost w/recommendation	\$1,013,074
Funding	
Prop 1 B -PTMISEA - 40Bus Purchase	\$345,518
Prop 1B - TSGP - Security - Routers	\$116,919
TDA - ITS	\$609,900
Total Funding	\$1,072,337

RESOLUTION NO. 2012-020

BOARD OF DIRECTORS

**CENTRAL CONTRA COSTA TRANSIT AUTHORITY
STATE OF CALIFORNIA**

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**AUTHORIZING THE GENERAL MANAGER TO EXECUTE A CHANGE ORDER TO THE
CLEVER DEVICES ITS CONTRACT IN THE AMOUNT OF \$96,000**

WHEREAS, the County of Contra Costa and the Cities of Clayton, Concord, the Town of Danville, Lafayette, Martinez, the Town of Moraga, Orinda, Pleasant Hill, San Ramon and Walnut Creek (hereinafter "Member Jurisdictions") have formed the Central Contra Costa Transit Authority ("CCCTA"), a joint exercise of powers agency created under California Government Code Section 6500 et seq., for the joint exercise of certain powers to provide coordinated and integrated public transportation services within the area of its Member Jurisdictions; and

WHEREAS, by Resolution No. 2011-011, the Board authorized procurement and implementation of an Intelligent Transportation System ("ITS") system that includes replacement radio/radio control system, a replacement CAD/AVL (vehicle location) system, and a new web-based passenger information system ("BusTime"); and

WHEREAS, each of these components are designed to work together and will use data that is collected and processed by the existing onboard computer, the Clever Devices IVN, which will be sent from the buses to inform dispatchers and passengers about bus location and on-time performance; and

WHEREAS, because Clever Devices IVN is proprietary hardware that is uniquely capable of operating the Clever Devices ITS software, CCCTA desires to use the sole source procurement process to purchase and have installed Clever Devices equipment; and

WHEREAS, as of June 21, 2011, CCCTA and Clever Devices, Inc. entered into an Agreement for Provision of Clevercad™ and Bustime System™, for implementation of a new ITS project, including the upgrade of 64 IVN2 computers; and

WHEREAS, the Operations and Scheduling Committee recommends that the contract with Clever Devices be increased by \$96,000 to cover the cost of replacing the older IVN2 onboard computers with 64 new IVN3 computers, with the understanding that a cost analysis has been done and confirms that the price is fair and reasonable; and

WHEREAS, sufficient capital funds are available for the additional expense without impact on the Authority's operating budget.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Central Contra Costa Transit Authority, that (1) the ITS project budget be increased by \$96,000; and (2) the General Manager, or his designee, is hereby authorized to execute a change order with Clever Devices for the purchase and installation of 64 new IVN3 computers at a cost not to exceed \$96,000.

Regularly passed and adopted this _16__th day of March, 2012 by the following vote:

AYES:

NOES:

ABSTENTIONS:

ABSENT:

| _____
Amy R. Worth, Chair, Board of Directors

ATTEST:

Janet Madrigal, Clerk to the Board