

Board Action/Information Summary

<input checked="" type="radio"/> Action <input type="radio"/> Information	MEAD Number: 100257	Resolution: <input type="radio"/> Yes <input checked="" type="radio"/> No
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TITLE:

Modification to Contract TC-6000 with Alstom

PURPOSE:

Request Board approval to modify Contract TC-6000 with Alstom Transportation Inc. to (1) substitute solid-side bearing plates for hollow-side bearing plates, (2) install a varilator into the car radio systems to reduce output power, (3) modify the propulsion system to limit the current draw to 1,620 amps and increase the regenerative braking voltage limit to 830 VDC, and (4) reduce the dollar value of the special tools, test and diagnostic equipment. The increased cost of \$869,692 for items 1, 2, and 3 above will be offset by the reduction of \$869,692 in the contract line item for special tools, test and diagnostic equipment, resulting in a zero dollar increase to the contract price.

DESCRIPTION:

Analysis showed that a varilator should be installed on the 6000-Series railcars to reduce the output power of the onboard car radio system. The installation of the varilator will allow the newly installed tunnel-based antenna to meet the compatibility requirements of the new radio communication system. This will improve the use of the onboard car radio system and eliminate the need for train operators to maintain hand-held radios thus improving communications between the trains and Operations Control Center and the Rail Yards.

Further, during onsite acceptance testing, there was evidence showing that the overall performance of the propulsion system could be improved. This modification to the propulsion system would ensure compatibility with the wayside power system and, also, reduce the amount of power consumed.

Technical reviews of derailment experiences with the 5000-Series fleet, disclosed that the hollow-side bearing plate contributed partially to the derailments. As a result, we have concluded that is is best to change the bearing plates in the 6000-Series railcars to solid-side bearing plates. The additional weight of the plates is intended to help dynamic stability and should help reduce the possibility of derailments.

The original contract, of \$129,291,458, for the design and manufacture of 62 6000-Series railcars included \$4,504,016 for special tools, test and diagnostic equipment. A review of the special tools, test and diagnostic equipment requirements, in the original contract, found that some of the tools/equipment were no longer required due to existing special tools/equipment inventory and the commonality of these tools/equipment amongst the various fleets.

Funds within the contract budget will be reallocated from the special tools, test and diagnostic equipment line item to fund the proposed contract modifications. There is sufficient funding remaining in the program at this time to purchase additional tools/equipment, if required. The

contractor is in agreement with reducing the special tools/equipment requirements to offset the cost of the proposed modifications.

FUNDING IMPACT:

Program: Capital Improvement Program
Project: 6000-Series Railcar Procurement - SAP
Budget: \$120,000,000
This Action: \$869,692
Prior Approval: \$119,126,806
Remaining Budget: \$3,502
Remarks: Sufficient budget authority is available to fund the estimated expenses. As such, this action requires no additional budget authorization and will not add to the overall cost of the contract.
Operating Budget Impact: Positions: 0 -- Annual Expenses: \$0.00

RECOMMENDATION:

Approval to modify Contract TC-6000 with Alstom Transportation Inc.