SUMMARY STATEMENT

ITEM NO.: PATCO-15-012  SUBJECT: PATCO Track Utility Vehicle

COMMITTEE: Operations and Maintenance

COMMITTEE MEETING DATE: April 8, 2015

BOARD ACTION DATE: April 15, 2015

PROPOSAL: That the Board authorizes staff to negotiate a contract with Arva Industries, Inc. for the purchase of one (1) Track Utility Vehicle for snow, third rail deicing, and leaf removal.

Amount: $1,995,410

Contractor: Arva Industries, Inc.
43 Gaylord Road
Saint Thomas, Ontario  Canada

Other Proposers: Foley Power Systems
Modern Track Machinery
Harsco Rail

Estimate: $2,600,000

PURPOSE: To provide a Track Utility Vehicle to be used for removal of snow from tracks, third rail deicing, leaf removal and cleaning of rails and occasional rescue of train cars.

BACKGROUND: PATCO currently utilizes various means and methods to spray the third rail during winter weather to prevent icing conditions and to remove leaf residue from the rails during the fall. Fallen leaves crushed under a train’s wheels leave an oily residue on the surface of the track. When a train starts or stops rolling over tracks covered with leaf oil, its wheels can slide. Friction caused by the slide can flatten parts of wheel surfaces and cause train wheels to roll unevenly, resulting in a thumping sound. When that happens, affected trains are taken out of service and wheels are replaced or reshaped. Leaf residue on rails is currently handled by an in-house designed and fabricated unit, which does not have the capacity and horsepower to adequately clear the rails.

During heavy snow storms, PATCO does not have a means to remove snow from the trackway and third rail. Having the ability to remove snow will ensure continuation of operations during extreme weather.

An antifreeze solution must be sprayed on the third rail to prevent ice
from forming. If ice forms, trains may exhibit electrical arcing, which can damage equipment or traction motors, or trains can experience loss of power. Deicing of the third rail has been addressed by outfitting a dedicated single train car with transfer pumps and a pressurized dispensing system. The deicing fluid is stored in containers and totes that are forklifted in and out of the train car. Once the existing cars are overhauled, modifying an overhauled married pair of cars for the purpose of deicing is not advisable. The modifications require seat frame removal, mounting boards for the pumps and securing the containers to the car structure. Additionally, when the totes are forklifted in and out of the cars, flooring damage has occurred.

In order to safeguard and continue operations, a specialized rail vehicle is needed to perform these functions. PATCO sought a qualified firm to design, manufacture, assemble, deliver, and perform acceptance testing of a Track Utility Vehicle (“TUV”) to be used by PATCO for snow removal, third rail deicing, leaf removal and rail cleaning, and occasional rescue of rapid transit cars.

A Request for Proposal (RFP) was developed and issued on November 21, 2014. Four (4) vendors expressed an interest and submitted Technical and Cost Proposals to provide a Track Utility Vehicle. PATCO staff evaluated the four (4) proposals on the basis of technical merit and cost of the vehicle. PATCO staff believes the proposal submitted by Arva Industries best meets the technical design requirements and purpose needed, is the most responsive and is the best value.

It is recommended that a contract be negotiated for the purchase of a Track Utility Vehicle with Arva Industries of Saint Thomas, Ontario, Canada in the total amount of $1,995,410. Upon approval of the Board, a contract will be negotiated with Arva Industries to provide a Track Utility Vehicle for removal of snow from tracks, third rail deicing, leaf removal and cleaning of rails, and occasional rescue of train cars.

**SUMMARY:**

- **Amount:** $1,995,410
- **Source of Funds:** 2013 Revenue Bonds
- **Capital Project #:** PD1107
- **Operating Budget:** N/A
- **Master Plan Status:** N/A
- **Other Fund Sources:** N/A
- **Duration of Contract:** N/A
- **Other Parties Involved:** N/A
RESOLUTION

RESOLVED: That the Board authorizes staff to negotiate a contract with Arva Industries of Saint Thomas, Ontario Canada to purchase a Track Utility Vehicle for snow, third rail deicing, leaf removal, and occasional rescue of train cars in the amount of $1,995,410; and be it further

RESOLVED: The Chair, Vice Chair and the President must approve and are hereby authorized to approve and execute all necessary agreements, contracts, or other documents on behalf of PATCO. If such agreements, contracts, or other documents have been approved by the Chair, Vice Chair and President and if thereafter, either the Chair or Vice Chair is absent or unavailable, the remaining Officer may execute the said document(s) on behalf of PATCO, along with the President. If both the Chair and Vice Chair are absent or unavailable, and if it is necessary to execute the said document(s), while they are absent or unavailable, then the President shall execute such document(s) on behalf of PATCO.

SUMMARY:

Amount: $1,995,410
Source of Funds: 2013 Revenue Bonds
Capital Project #: PD1107
Operating Budget: N/A
Master Plan Status: N/A
Other Fund Sources: N/A
Duration of Contract: N/A
Other Parties Involved: N/A