



City of Galveston

FLEET, MASS TRANSIT & SPECIAL EVENTS STAFF REPORT

Date February 14, 2023

To: City Manager
Mayor and City Council Members

From: David Smith, Executive Director
Fleet, Mass Transit and Special Events

Project location: N/A

Project: Trolleys 3G Upgrade & Controls
Relocation

Request: Consider for the approval of the upgrading of the three operating trolleys telematic systems from the outdated 3G network, and in addition, provide safety requested adjustments to the emergency stop systems, for a total cost of \$25,555 to Gomaco Trolley Company. Funding will be from the Convention Center Surplus Fund.

Prior Council Action

No prior action on this item

Background

- A. Island Transit currently has three of the refurbished steel wheel trolleys in operation.
- B. Gomaco Trolley Company can monitor, adjust and repair many items on the trolley utilizing a telematic remote diagnostic system.
- C. This system runs on a 3G network and will have to be upgraded (Proposal A).
- D. This will include Gomaco technicians flying in and perform the installations.
- E. In addition, Gomaco will also relocate the emergency stop buttons and key switches to the two main operators consoles on each of the three trolleys (Proposal B).





City of Galveston

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F. Combining these two project proposals will reduce the labor and airfare costs.

Fiscal Impact Report

Proposal	Task	Parts	Engineering	Travel	Labor & Board	Fund	Extended
A	Telematic 3G Upgrade	\$12,705	\$0.00	Removed	Removed	Convent Surplus	\$12,705
B	Shutdown Relocation	\$3,350	\$2,500	\$500	\$6,500	Convent Surplus	\$12,850
							\$25,555

Alternatives

A. City Council approves.

1. Cost - \$25,555
2. Timing - delivery within 30-60 days
3. Divisional Improvements - will provide Island Transits Trolleys with required equipment to perform duties.

B. City Council does not approve.

1. Cost - None
2. Timing - N/A
3. Divisional Improvements - Island Transit Trolleys will not be able to function properly without required equipment. Efficiencies will be reduced.

Staff Recommendation

Concur in Alternative A and approve the upgrading of the three operating trolleys telematic systems from the outdated 3G network, and in addition, provide safety requested adjustments to the emergency stop systems, for a total cost of \$25,555 to Gomaco Trolley Company. Funding will be from the Convention Center Surplus Fund.

Attachments





CITY OF GALVESTON

Sole Source Justification

Vendor: _____ Vendor # _____ Requisition #: _____

Product/Service: _____

Estimated expenditure for the above commodity or service: \$ _____

This form must be completed for each requisition/contract that provides for proprietary (sole source) acquisition of goods and services valued at a total amount of \$1,000 or more. If more space is needed, please attach additional page(s). Inadequate justification or documentation for a request for non-competitive procurement will result in a solicitation of bids or quotes.

Unique Features. Specify the unique features or characteristics of the goods or services that are requested:

Special Needs. Briefly explain why the unique specifications restrict the requisition to one manufacturer or provider:

Other Sources. State the reason or reasons why competing products are not satisfactory, e.g. a justification for the proprietary (sole source) acquisition:

Check all entries below that apply to the proposed purchase. (More than one entry will apply to most sole source products/services requested).

1. SOLE SOURCE REQUEST IF FOR THE ORIGINAL MANUFACTURER OR PROVIDER, THERE ARE NO OTHER DISTRIBUTORS. (Attach the manufacturer's written certification that no regional distributors exist. Item No. 3 also must be completed.)
2. SOLE SOURCE REQUEST IS FOR THE ONLY GALVESTON COUNTY AREA DISTRIBUTOR OF THE ORIGINAL MANUFACTURER OR PROVIDER. (Attach the manufacturer's — not the distributor's — written certification that identifies all regional distributors. Item No. 3 also must be completed.)
3. THIS IS THE ONLY ITEM OR SERVICE REASONABLY KNOWN THAT WILL MEET THE SPECIALIZED NEEDS OF THIS DEPARTMENT OR PERFORM THE INTENDED FUNCTION. (Attach memorandum with details of specialized function or application.)
4. CAPTIVE REPLACEMENT PARTS OR COMPONENTS FOR EQUIPMENT: THE PARTS/EQUIPMENT

ARE NOT INTERCHANGEABLE WITH SIMILAR PARTS OF ANOTHER MANUFACTURER.
(Explain in separate memorandum.)

- 5. THE PARTS/EQUIPMENT ARE REQUIRED FROM THIS SOURCE TO PERMIT STANDARDIZATION OR COMPATIBILITY WITH EXISTING EQUIPMENT OPERATIONS OR SERVICES. (Attach Memorandum describing basis for standardization request.)
- 6. NONE OF THE ABOVE IS APPLICABLE. A DETAILED EXPLANATION AND JUSTIFICATION FOR THIS SOLE SOURCE REQUEST IS CONTAINED IN THE ATTACHED MEMORANDUM.

The undersigned attests that the above is true and correct and requests that this purchase be exempt from the City's purchasing policies and applicable state law requirements for competitive procurement.

Department Director (Print Name)

David Smith

Department Director (Signature)

Department

Date

(FOR PURCHASING DEPARTMENT USE ONLY)

_____ APPROVED _____ NOT APPROVED

REASON, IF NOT APPROVED: _____

BY: _____

DATE: _____



City of Galveston

FLEET FACILITIES MEMORANDUM

Gomaco Trolley Company Sole Source Justification

Background

The first three trolleys were completely rebuilt like new and were given new power plants, new automated control systems, new braking systems, rebuilt HVAC systems, brass items were reconditioned, new LED lighting was added, miles of new wiring and the undercarriage was reworked, a new coat of paint, reconditioned all woodwork, and new safety equipment was all included in the project. The same items will be covered for the fourth trolley and should remain consistent with the three others. In addition, operators and the two assigned mechanics would have to learn and work on two different systems if the fourth trolley was rebuilt by another company.

A large component of the restoration was the engineering process that included the programmable logic controller designed to operate and coordinate the trolleys new power plant, braking, safety controls and the 600 and 12-volt electrical systems. This engineering process had to be completed in order for the trolleys to operate efficiently. These products are not "off the shelf" items and are engineered and designed solely for the Galveston trolley cars.

Another important modification that GOMACO completed was the changing of the wheel systems to a Milan Italy rail truck standard. This wheel system has a shorter carriage that allows the trolley to complete the tight 50 feet curve radius turns which in the past caused derailments. These Milan-style trucks came from an inventory that GOMACO keeps in stock. They were purchased by GOMACO years ago and they are the only trolley rebuilder that currently has them. In addition, the wheels were redesigned and cut to match the Galveston's rail profile and gage.

Due to the numbered items listed above, GOMACO is considered as a sole source vendor for this project.

David Smith

David Smith
Executive Director





Gomaco Trolley Company

Manufacturers of Authentic Trolley Cars
Ida Grove, Iowa 51445
Phone 712-364-3347
www.gomacotrolley.com

Proposal To:

A

MICHAEL AGRUSO
ISLAND TRANSIT
GALVESTON, TEXAS

Proposal For:

UPDATE OF Trolley TELEMATIC EQUIPMENT
GALVESTON ISLAND TROLLEYS

Submitted By:

GOMACO Trolley Company
301 E. Second St.
PO Box 151
Ida Grove, IA 51445-0151 USA
Phone: (1) 712-364-3347

Lex Jacobson
Manager
GOMACO Trolley Company

Jeff Lawhead
Sales Manager
GOMACO Trolley Company

17 January 2023

A

Remote access to the Galveston trolleys' controls is also allowed for by the GOMACO Remote Diagnostic (GRD) system. This is a global telematic-like system using a cellular data plan that allows for online communication with the trolley. Remote program modifications, setting changes and troubleshooting can be achieved via this platform. Data plan access and GRD functionality have been complimentary through the warranty period and to date. When active, the GRD system greatly enhances GTC's ability to provide support for the trolley's operational and maintenance crews from our location in Iowa

Due to changes in cellular technology the 3G data signal used by the remote diagnostic equipment on the Galveston trolleys is going through a obsolescence cycle. The system will no longer be able to function as 3G data signals are no longer available. GOMACO Trolley Company is happy to offer the following proposal for a service call in which the telematic system is updated. This call could be combined with other needed service as it might arise in the interest of cost savings. GTC service personnel would come on site to install the hardware update and verify its proper function. Two days for travel and 1 full day of service in this case would likely allow for more than enough time for the update, so may allow time for other issues as well. 1 year of additional data access would be included in the proposal.

Proposed Update Pricing (3 Cars)

Service Call 3-Car Modification	
3 Days at \$1300/day	\$3,900
Airfare (est. OMA/HOU)	\$500
Other Travel Exp. (Hotel, Meals, Rental, etc.)	incl.
Parts (Telematics Unit, Antennae, Hardware, etc.)	\$12,705
Data Plan, 1 year, all cars	incl.
Total Estimate for Changes	\$17,105

\$12,705

Pricing valid for 90 days.

Work to be scheduled upon acceptance of proposal and estimate.



Gomaco Trolley Company

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Ida Grove, Iowa 51445
Phone 712-364-3347
www.gomacotrolley.com

Proposal To:

B

MICHAEL AGRUSO
ISLAND TRANSIT
GALVESTON, TEXAS

Proposal For:

RELOCATION OF ENGINE KEY AND SHUTDOWN SWITCH
GALVESTON ISLAND TROLLEYS

Submitted By:

GOMACO Trolley Company
301 E. Second St.
PO Box 151
Ida Grove, IA 51445-0151 USA
Phone: (1) 712-364-3347

Lex Jacobson
Manager
GOMACO Trolley Company

Jeff Lawhead
Sales Manager
GOMACO Trolley Company

28 December 2022



It has been observed that operation of engine controls located in the overhead control panel of the Galveston Island Trolleys can be a problem for shorter operators. These controls are located in both the A and B ends of the trolleys. Island Transit has requested an engineered solution to relocate both the engine start/cab activation key switch and the engine shutdown switch from the overhead control panels to the main operational console on each end of the three active trolleys. Further, Island Transit would like to see the same change implemented as part of the restoration of the fourth trolley.

GOMACO Trolley Company is happy to offer the following proposal for a service call in which the requested changes are implemented. One GTC service tech would travel to Galveston over the course of a week and make the changes. Monday and Friday would be allowed for as primarily travel days, leaving one day per car for the modifications on Tuesday through Thursday. New panels would be provided with new decals. All switches would be relocated to the new panels. The wiring would be altered for the replacement panels in the manner of the existing controls. All effected functions would be thoroughly tested and reviewed for correct operation upon completion of the prescribed changes. It would be expected that Island Transit maintenance personnel will be available for support and assistance with the modifications as needed over the course of the week.

Proposed Modification Pricing

Engineering Implementation	\$2,500
Partsbook and Drawing File Updates, Electronic	incl.
Service Call 3-Car Modification	
5 Days at \$1300/day	\$6,500
Airfare (est. OMA/HOU)	\$500
Other Travel Exp. (Hotel, Meals, Rental, etc.)	incl.
Parts (Panels, Switches, Decals, etc., est.)	\$3,350
503 Change Incorporation	incl.
Total Estimate for Changes	\$12,850

Pricing valid for 90 days.

Work to be scheduled upon acceptance of proposal and estimate.