



FAX

FRESNO AREA **EXPRESS**

Fresno Area Express

Option Proposal for Two (2)
Fuel Cell-Electric 40' Buses



NEW FLYER OF AMERICA

Blake Rincon
Fleet Operations Specialist
Department of Transportation
Phone: 559.621.1467
Email: blake.rincon@fresno.gov
2223 G Street
Fresno, CA 93706

March 8, 2023

Subject: Quotation for Heavy-Duty Low Floor Fuel-Cell Electric Transit Buses

Dear Blake Rincon,

New Flyer of America Inc. is pleased to submit an option price quotation for the production of two (2) 40' fuel-cell electric buses based on New Flyer's contract with the State of California, DGS.

The proposed buses will be technically configured as per the bid specifications from the City of Fresno, Department of Transportation, Bid File No. 9518 (40" Low Floor, Long Range, Battery Electric Bus), with the necessary changes for the fuel-cell electric bus configuration.

The price for one (1) 40' fuel-cell electric transit bus – is **\$1,334,488.64 USD**

This proposal is based on providing full fixed ThermoGuard instead of top tip-in ThermoGuard style windows, since our window supplier cannot provide ThermoGuard flush laminated tip-in glass.

Refer to Tabs 1-2 for additional details regarding the pricing. Please be advised that we are applying a sales tax percentage of 8.35% to the bus price (with non-taxable items including ADA Equipment and the Delivery Fee excluded). However, the City of Fresno is eligible for a reduced sales tax percentage of 4.4125% since the buses are zero-emission.

We want to take this opportunity to highlight key elements of our proposal.

Warranty: New Flyer exceeds industry standard warranties in many areas such as 5 years / 300,000 miles warranty for axles (Standard warranty is 2 years) and our multiplex warranty is 3 years/150,000 miles (Standard competitor warranty is 1 year/50,000 miles). Please refer to Tab 3 of our proposal for additional details regarding our Warranty package.

Training: New Flyer Training is an organization within the New Flyer Customer Services group – a division of New Flyer Industries. As a part of the leading manufacturer of heavy-duty transit buses in the United States and Canada, we have access to top design, engineering, propulsion technology and electrical systems professionals. This enables us to offer the service and expertise to maximize the lifetime value of your fleet. Training is not included in the base bus price. Please refer to Tab 4 of our proposal for additional details regarding our Training package.

Tooling and Diagnostics: Tooling and Diagnostics items are not included in the base bus price. Please refer to Tab 5 of our proposal for additional details regarding our Tooling and Diagnostics package.

Publications: Our New Flyer Publications professionals combine extensive, hands-on technical experience with exceptional writing, illustrating, and publishing skills to create the industry's benchmark in maintenance manuals. Supplying accurate information in a timely manner assists the customer in the performance of proper bus maintenance, which in turn, adds to the overall reliability and lifetime value of each New Flyer bus on the road. Please refer to Tab 6 of our proposal for additional details regarding our publications package.

Delivery Proposal: New Flyer is proposing a complete delivery of the buses by December 2023, should a Notice to Proceed be received within the next 60 days.

Payment Terms: Following the terms and conditions of New Flyer's contract with the State of California, DGS, our proposed payment terms are as follows:

- Payment terms are Net 45 days from acceptance

This proposal is valid for the next 60 days.

This is a very important project to us as it allows us the opportunity to continue to build on the strong relationship we have enjoyed with Fresno Area Express. It also affords us the opportunity to deliver to you, once again, some of the most advanced vehicles available in North America. We thank you for your continued interest in New Flyer products and look forward to working with you in the near future.

Please indicate your acceptance by confirming via email to New Flyer, attention Adrian Graca, email: Adrian_Graca@newflyer.com.

Sincerely,



Luciana Marques
Technical Sales Manager, New Flyer Inc.
P: 431.278.8653
E: luciana_marques@newflyer.com

CC: Adrian Graca – Business Segment Director
Mark Fisher – Director, National Sales
Katherine Trotter – Technical Sales Analyst

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

New Flyer 40' Fuel Cell-Electric Transit Buses: Option Proposal

Tab	Title
1	Price Change Summary
2	Price Change Detail
3	Warranty
4	Training
5	Tooling and Diagnostics
6	Publications

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

Tab 1, Price Change Summary

Solicitation Requirements:

Price Change Summary.

New Flyer Response:

Please refer to the attached Price Change Summary for Fresno Area Express' review.



Price Change Summary

Property:	Fresno Area Express
Option Origin:	DGS
Sales Release No.:	TBD
Quantity:	2
Type:	XHE40
Price Change No.:	1
Revision:	A
Date:	Feb. 22, 2023

	Each	Total
Original Contract Price Base Coach	\$ 1,199,704.81	\$ 2,399,409.62
Base Bus Price Change Total	\$ 134,783.83	\$ 269,567.65
Contract Spares Base Bus Price Change Total	\$ -	\$ -
Revised Price Base Bus (including ADA & delivery)	\$ 1,334,488.64	\$ 2,668,977.27
ADA Equipment (Non-Taxable)	\$ 43,151.37	\$ 86,302.74
Delivery Fee (Non-Taxable)	\$ 10,249.00	\$ 20,498.00
Non-Taxable Items Total	\$ 53,400.37	\$ 106,800.74
Base Price (Non-taxable items removed)	\$ 1,281,088.27	\$ 2,562,176.53
Sales Tax @ 8.35% on bus price without non-taxable items	\$ 106,970.87	\$ 213,941.74
Total Base bus (without ADA/Delivery) plus tax	\$ 1,388,059.14	\$ 2,776,118.27
Total Bus with Tax, ADA and Delivery	\$ 1,441,459.51	\$ 2,882,919.01

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

Tab 2, Price Change Detail

Solicitation Requirements:

Price Change Detail.

New Flyer Response:

Please refer to the attached Price Change Detail for Fresno Area Express' review.



Price Change Detail

Property:	Fresno Area Express
Option Origin:	DGS
Sales Release No.:	TBD
Quantity:	2
Bus Type:	XHE40

Price per coach					Total
Price Change Type	Reference No.	Option No.	Option Group	SRCR No.	Description
Base Bus Price Change	1	205	Tires		Change from NFI supplied tires in DGS to Customer Supplied Tires/Alcoa Aluminum Wheels as per Fresno specifications
	2	304	Paint & Decal		Change from DGS to Fresno specific paint scheme
	3	420	Body A/P Before Paint		Add lower impact panels as per Fresno specifications
	4	460	Windows		Change from Arrow Global windows non-flush, fixed and laminated with 44% light transmission in DGS to Arrow Global windows flush and fixed of the ThermoGuard, laminated type, with 70% light transmission as per Fresno specifications
	5	470	Destination Signs		Change from Luminator Amber Signs in DGS to Hanover full color front sign and amber signs for side and rear (also Hanover)
	6	470	Destination Signs		Add Trapeze Transit Master AVA system
	7	480	Mirrors		Change from DGS to Fresno specific, dual remote mirrors
	8	491	Door Exit		Change exit door from medium width electric in DGS to wide style pneumatic as per Fresno specifications
	9	526	Seating & Stanchions		Change passenger seats from American Seating Insight-Prime in DGS to USSC Aries 38 with Quantum and Q pod as per Fresno specifications
	10	526	Seating & Stanchions		Change driver's seat from Recaro Ergo AM80 in DGS to 9110 ALX as per Fresno specifications
	11	600	Customer Options		Add Dialex APC System as per Fresno specifications
	12	600	Customer Options		Add Traffic Signal Control with infrared capability as per Fresno specifications
	13	600	Customer Options		Add provision for power converter as per Fresno specifications
	14	600	Customer Options		Add provisions for APEX 3 bike rack as per Fresno specifications
	15	600	Customer Options		Add Trapeze Onsite Integration
	16	600	Customer Options		Add Trapeze Installation Audit, Approved Labor
	17	600	Customer Options		Add Brake Wear Indicator as per Fresno specifications
	18	600	Customer Options		Add Traffic Signal Control, GPS enabled as per Fresno specifications
	20	600	Customer Options		Add Camera Option #1: 4112HVR with 9 total cameras, a 2TB SSD hard drive, 128GB SD card, POE switch, panic button and UPS
Base Bus Price Change Total					
Grand Total					

Please note that we are including option #1 for the camera system as part of the base bus price as shown above; total \$7,589.94.

As an alternative to option #1, we are pleased to provide option #2 for the camera system. This option will include total 9 cameras, a 2TB SSD hard drive, 128GB SD card, panic button and UPS. All cameras proposed in option #2 are IP cameras. This quote is provided since the bid specifications from the City of Fresno, Department of Transportation, Bid File No. 9518 (40" Low Floor, Long Range, Battery Electric Bus) states that "the video cameras must operate on Power-over-Ethernet (PoE)". Due to the 4112HVR only being capable of 4 total IP cameras, the 4816NVR is proposed since it can run a total of 16 IP cameras (to accommodate the 9 cameras listed). Pricing for this option is \$11,905.83 which will change the bus price if selected.

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

Tab 3, Warranty

Solicitation Requirements:

Warranty.

New Flyer Response:

Please refer to the attached Warranty for Fresno Area Express' review. Warranty is included in the bus price.



NEW FLYER OF AMERICA

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILES	
Base Bus Warranty	New Flyer of America	2	100,000	Excluding scheduled maintenance items, acts of nature, or normal consumables
Basic Bus Structure	New Flyer of America	3	150,000	Body, and body structure shall consist of the components that are mechanically fastened or adhesively bonded or glued as part of the structure.
Chassis Structure (Integrity)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction. The structural integrity guarantee covers against a significant loss of structural integrity of the assembly or its functional performance.
Chassis Structure (Corrosion)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction, and are warranted against corrosion failure and/or fatigue failure sufficient to cause a Class 1 failure. The corrosion and structural integrity of structural integrity of the assembly or its functional performance, resulting from a pertinent loss of cross-section due to corrosion caused by normal environmental elements but excludes corrosion caused by aggressive road deicers such as M. If approved preventative measures are taken. The warranty shall be void if the Agency fails to conduct corrosion inspections and scheduled preventive maintenance procedures as specified in the Contractor's maintenance manuals. The Agency shall verify the Contractor, verifying service activities in conformance with the Contractor's maintenance manuals.
Propulsion System (Traction System, Controllers/Inverters and Gear Box)	Siemens/New Flyer of America	3	100,000	First 2 years covered by Siemens. New Flyer covers Year 3. All warranty claims to be submitted to New Flyer.
Hydrogen Fuel Cell	Ballard	6	250,000	Some limitations and exclusions may apply - Please see manufacturer's warranty document.
Hydrogen Fuel Cell Batteries	New Flyer of America	6	Unlimited	<p>"Capacity fade is the relative reduction of the total amount of energy the battery system can store in a single charge for the purpose of powering the bus as compared to capacity at beginning of life (BOL). Capacity fade is warranted to 80% of BOL."</p> <p>1) capacity measurements are taken from a balanced ESS, and 2) ESS is maintained in the manner described in the New Flyer Service Manual."</p> <p>"The string Battery Management System (BMS) controllers and Power Distribution Unit (PDU) are warranted for proper operation up to year 6 when the ESS is maintained in the manner described in the New Flyer Service Manual."</p>
Axle (Front and Rear)	MAN	5	300,000	Excluding maintenance items & items that are not covered by the OEM's warranty. All friction materials are excluded from this limited warranty. Wear and third party items supplied with the axle (e.g. slack adjuster, seals and bearings, shocks, etc.) are included in the 5 year warranty. Please see manufacturer's warranty document.
A/C	Thermo King	2	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Brake System	New Flyer of America	2	100,000	Friction Material Excluded
Destination Signs	Hanover	10	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Door Systems	Vapor	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
Air Compressor	New Flyer of America	2	Unlimited	
Wheelchair Ramp	New Flyer of America	2	Unlimited	
Electrical System	Parker	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
LED Headlights	J.W.Speaker	6	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document
Tires	New Flyer of America	2	24,000	New Flyer Industries Limited warrants the tires installed as original equipment on this vehicle only against defects in materials and workmanship which cause the vehicle to fail to comply with applicable U.S. and Canadian greenhouse gas emissions regulations. New Flyer Industries Limited express warranty relating to original equipment tires is valid for two (2) years or 24,000 miles whichever occurs first.
New Flyer Connect System	New Flyer of America	3	Unlimited	Warranty covers the system and subscription for 3 years.
Air Dryer	Haldex	2	100,000	
Power Steering	New Flyer of America	2	100,000	



NEW FLYER OF AMERICA

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILES	
Towing	New Flyer of America	2	100,000	
Handling Charge 15%	New Flyer of America	5	300,000	
Passenger Seating	American Seating	5	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document.
Road Calls	New Flyer of America	5	300,000	
DC to DC Converter	Vanner	3	150,000	Some limitations and exclusions may apply - Please see manufacturer's warranty document.
Paint	Axalta	5	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document.

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

Tab 4, Training

Solicitation Requirements:

Training.

New Flyer Response:

Please refer to the attached recommended Training for Fresno Area Express' review. As per the base contract, Training **is not included** in the bus price.

CONTRACT DELIVERABLES LIST		CUSTOMER TRAINING			
CUSTOMER NAME	Fresno				
BID/OPTION/SR NUMBER	2023-008				
TECHNICAL SUMMARY	2022-092 Rev Draft				
BUS MODEL	XHE40				
QUANTITY	2				
PROPULSION SYSTEM/FUEL CELL	Siemens ELFA 3/Ballard FCMove				
ENERGY STORAGE SYSTEM	XALT High Energy Gen 2				
COOLING SYSTEM	EMP/Modine				
AXLES	MAN VOK07 Front, HY1350 Rear				
LEVELING/KNEELING	SmartRider Lite				
STEERING	Berendsen Electric				
ABS	Wabco				
AIR CONDITIONING	Thermo King, Intelligaire III, TE15, R407c				
CABIN HEATER	Valeo Thermo Electric				
PLC	Vansco				
DESTINATION SIGNS	Hanover				
DOORS	Vapor				
WHEELCHAIR RAMP	NF SmartRider Electric				
FIRE SUPPRESSION/GAS DETECTION	Amerex SafetyNet				
AVA/AVL	Trapeze TripSpark				
APC	Dilax				
VIDEO SURVEILLANCE	Safety Vision				
BRAKE MONITORING	MGM eStroke				
TIRE PRESSURE MONITORING SYSTEM	SST				
New Flyer Supplied Training					
DESCRIPTION	COMMENTS	QTY HRS.	TOTAL SELLING PRICE AT BID	REQUIREMENT	BILLABLE: Y/N
Operator Training		56	\$13,815.90	Required	Y
FCEB Technician Training		304	\$126,711.00	Required	Y

CURRENCY:
USD

Tab 5, Tooling and Diagnostics

Solicitation Requirements:

Tooling and Diagnostics.

New Flyer Response:

Please refer to the attached details of the Tooling and Diagnostics proposal for Fresno Area Express' review. As per the base contract, some Tooling and Diagnostics elements **are included** in the bus price whereas other Tooling and Diagnostics elements are priced **outside of the** bus price. The Tooling and Diagnostics priced outside of the bus price can be used as a shopping list to best select Tools and Equipment necessary for your operation.

CONTRACT DELIVERABLES LIST	DIAGNOSTICS & TOOLS
CUSTOMER NAME	Fresno
BID/OPTION/SR NUMBER	2023-008
TECHNICAL SUMMARY	2022-092 Rev Draft
BUS MODEL	XHE40
QUANTITY	2
PROPULSION SYSTEM/FUEL CELL	Siemens ELFA 3/Ballard FC/Move
ENERGY STORAGE SYSTEM	XALT High Energy Gen 2
COOLING SYSTEM	EMP/Modine
AXLES	MAN VOK07 Front, HY1350 Rear
LEVELING/KNEELING	SmartRider Lite
STEERING	Berendsen Electric
ABS	Wabco
AIR CONDITIONING	Thermo King, Intelligaire III, TE15, R407c
CABIN HEATER	Valeo Thermo Electric
PLC	Vansco
DESTINATION SIGNS	Hanover
DOORS	Vapor
WHEELCHAIR RAMP	NF SmartRider Electric
FIRE SUPPRESSION/GAS DETECTION	Amerex SafetyNet
AVA/AVL	Trapeze TripSpark
APC	Dilax
VIDEO SURVEILLANCE	Safety Vision
BRAKE MONITORING	MGM eStroke
TIRE PRESSURE MONITORING SYSTEM	SST

NOTE: TOOL KITS MAY BE SUBJECT TO CHANGE

**** All claims for concealed shortages must be reported within 20 days of shipment date. Shipping damages and / or loss must be noted on the delivering carrier waybill at the time of receipt of shipment. A copy of the carrier waybill and / or carrier inspection report must be submitted with your claim within 5 days of receipt of shipment to New Flyer Customer Service.**

SHIPPING ADDRESS (IF DIFFERENT THAN ABOVE)	COMMENTS	DESCRIPTION	QUOTED PART #	BID QTY	EXTENDED SELLING PRICE	REQUIREMENT	BILLABLE: Y/N
		Diagnostic Equipment					
	for use with all diagnostic software	Panasonic FZ55 Toughbook Laptop	6502351	2	N/A	Required	N
	Requires annual renewal	Wabco ABS Software (1-year subscription)	6334596	2	N/A	Required	N
	Software included in kit	Intelligaire III Diagnostic Software & Cables	6393934	2	N/A	Required	N
	EMP - Drivers & Downloads (emp-corp.com)	EMP Software	NPN	2	N/A	Required	N
	Troubleshooting & Diagnostics - Modine	Modine Software	NPN	2	N/A	Required	N
	Software included in kit	Valeo Diagnostic Software & Cables	6396448	2	N/A	Required	N
		Valeo Adapter - Diagnostic	6492163	2	N/A	Required	N
	http://proheat.com/otherFiles/2009BOK_MAR_18_2	Kit - Link Master Data Proheat	6478593	2	N/A	Required	N
	kmeyers@hanoverdisplays.com	Hanover HELEN Software	6401762	2	N/A	Required	N
		Hanover Keylo Programming Device	6401761	2	N/A	Required	N
		Hanover Keylo Programming Base Station	6401760	2	N/A	Required	N
	http://divapps.parker.com/divapps/inan/Vansco/M	Vansco Software	NPN	2	N/A	Required	N
	http://divapps.parker.com/divapps/inan/Vansco/DIA	Vansco 1210 Chooser	NPN	2	N/A	Required	N
	https://pb.parker.com/us/17616/en/gateway-modu	PVSG Software	NPN	2	N/A	Required	N
	https://promo.parker.com/promotionsite/parker-sm	Cable - PVSG Interface	6487019	2	N/A	Required	N
		Smarrtrider Software	NPN	2	N/A	Required	N
		Siemens PCAN Interface Harness	711447	2	N/A	Required	N
		USB CAN Adapter - Siemens Interface	6402046	2	N/A	Required	N
		UDS Software - Vector Indigo	6487897	2	N/A	Required	N
	Requires annual renewal	Annual Maintenance - Vector Indigo	6487898	2	N/A	Required	N
		Vector Keyman USB Dongle	6487899	2	N/A	Required	N
		Indigo Interface - Vector VN1630 Log	6491163	2	N/A	Required	N
	(qty of 2 per 1 VN1630)	CANPiggy 1057GCap - Vector	6491232	4	N/A	Required	N
	(qty of 2 per 1 VN1630)	CANcable 2Y - Vector Indigo	6412000	4	N/A	Required	N
	darryl_desjarlais@newflyer.com	XALT Service Tool Software	NPN	2	N/A	Required	N
		XALT Interface Cable - Batteries	704950	2	N/A	Required	N
		Kit - XALT SPI Tool Universal	6482554	2	N/A	Required	N
	Troubleshooting & Diagnostics - Modine	Modine BTMS Software	NPN	2	N/A	Required	N
		Plug - MSD Blank	869751	6	N/A	Required	N
		Cap - 12 PK Bus Bar Protective Cvr	6483658	2	N/A	Required	N
		Key, Cam Latch #4 (ESS Triangle Key)	6476226	2	N/A	Required	N
	Product Drivers - NEXIQ.com	Nexiq USB Link 2 - WIFI Edition	6465863	2	N/A	Required	N
	darryl_desjarlais@newflyer.com	Danfoss Software - Berendsen Pwr Strg	NPN	2	N/A	Required	N
	http://ballard.com/contact-us	Cables Kit - Berendsen Pwr Strg	6490120	2	N/A	Required	N
		Ballard Software	NPN	2	N/A	Required	N
	Software included in kit	Diag Cable - Ballard RDU	6473813	2	N/A	Required	N
	Software included in kit	Amerex SafetyNet Software & Interface	6355551	2	N/A	Required	N
	Software included in kit	eStroke Diagnostic Kit - J1939	6466350	2	N/A	Required	N
	Software included in kit	SST TPMS Admin Software & USB Tool	6487862	2	N/A	Required	N
		Clamp Meter - 1000A Fluke 376	6487900	2	N/A	Required	N
		Fluke 2 in 1 Multimeter - 1587FC	6400746	2	N/A	Required	N
		Conductivity Meter	6489997	2	N/A	Required	N
		modular test lead kit	6473267	2	N/A	Required	N
		test probe flat blade	6473268	2	N/A	Required	N
		test probe back probe	6473269	2	N/A	Required	N

Diagnostic Equipment (included in the bus price)

SHIPPING ADDRESS (IF DIFFERENT THAN ABOVE)	COMMENTS	DESCRIPTION	QUOTED PART #	BID QTY	EXTENDED SELLING PRICE	REQUIREMENT	BILLABLE: Y/N
		Add'l Recommended Special Tools & PPE					
		Kit - Lift Tow Universal	6396565	1	\$286.79	Recommended	Y
		Kit - Lift Tow Receivers	6396567	1	\$1,658.50	Recommended	Y
		Xcelsior Flat Tow adapter (2 pcs. Per set)	6395097	1	\$3,164.91	Recommended	Y
		Assy - Frame Flat Towing	902990	1	\$5,871.29	Recommended	Y
		Jacking Adapters	434434	1	\$1,056.66	Recommended	Y
		Tool - Sway Bar Bushing Removal	566804	1	\$426.18	Recommended	Y
		Repair Kit - Disc Brakes & Callipers	6408310	1	\$4,100.41	Recommended	Y
		Torque Multiplier	6314711	1	\$2,208.07	Recommended	Y
		Hub Repair Kit - MAN VOK-07 Frt Axle	6408311	1	\$8,285.23	Recommended	Y
		Optional Hub Removal Hydraulic Tool Kit - MAN VOK-07	6458834	1	\$5,306.00	Recommended	Y
		King Pin Press Kit - MAN VOK-07 Frt Axle	6408312	1	\$14,440.38	Recommended	Y
		Hub Repair Kit - MAN HY1350 RR Axle	6408306	1	\$5,397.31	Recommended	Y
		ABS Sensor R&R Kit - MAN HY1350 RR Axle	6408307	1	\$984.96	Recommended	Y
		Pinion Seal Repair Kit - MAN HY1350 RR Axle	6444302	1	\$2,639.55	Recommended	Y
		Differential Repair Kit - MAN HY1350 RR Axle	6444303	1	\$8,531.35	Recommended	Y
		Optional Tool Kit - MAN HY1350 RR Axle	6444304	1	\$36,038.45	Recommended	Y
		Coolant System Pressure Tester	660817	1	\$961.15	Recommended	Y
		Kit - Coolant Pressure Fill	6484741	1	\$2,848.82	Recommended	Y
		Adj Tool - Strg Gear Box Press Relief	6465265	1	\$309.02	Recommended	Y
		Depth Punch - Strg Gear Box Press Relief	6465266	1	\$185.41	Recommended	Y
		Flow Meter Tester - Strg Gear Box	140809	1	\$1,221.32	Recommended	Y
		Puller Tool - Pitman Arm	6394270	1	\$494.62	Recommended	Y
		TK A/C Tool Kit - TE15 R407c	6472762	1	\$22,636.84	Recommended	Y
		Amerex Discharge Hose Blowout Adapter	052132	1	\$126.48	Recommended	Y
		Amerex Fire Alarm/Simulator Module	6484731	1	\$365.23	Recommended	Y
		Amerex Calibration Kit - AMGAoS III	6459321	1	\$1,458.27	Recommended	Y
		Assy - H2 Tank Pressure Interface	970139	1	\$103.23	Recommended	Y
		Valve Instl Tool	6473780	1	\$1,665.74	Recommended	Y
		Ballard Special Tools Kit, HD7	6473770	1	\$1,272.85	Recommended	Y
		Lifting Adapter Assy - Siemens PEM	6481413	1	\$1,015.46	Recommended	Y
		Lifting Device - XALT XM0D Battery Modules	6476635	1	\$1,765.80	Recommended	Y
	HV Tools	Wiha Insulated Master Electrician's tool kit	6473445	1	\$5,006.64	Recommended	Y
	HV Tools	wiha 1/4 in ratchet set insulated SAE	6473447	1	\$655.25	Recommended	Y
	HV Tools	wiha 1/4 in ratchet set insulated Metric	6473448	1	\$655.18	Recommended	Y
	HV Tools	16 PC 3/8 drive socket set	6473449	1	\$536.80	Recommended	Y
	HV Tools	3/8 Extension set	6473450	1	\$72.94	Recommended	Y
	HV Tools	3/8 Extension set	6473451	1	\$101.75	Recommended	Y
	HV Tools	wiha open end wrench insulated metric	6473452	1	\$708.67	Recommended	Y
	HV Tools	wiha open end wrench insulated sae	6473453	1	\$880.55	Recommended	Y

HV Tools	Wiha insulated Serrated Tweezers Straight	6473454	1	\$65.92	Recommended	Y
HV Tools	Wiha insulated Serrated Tweezers Angled	6473455	1	\$91.83	Recommended	Y
HV Tools	Insulated Torque Wrench 1/4"	6473456	1	\$906.00	Recommended	Y
HV Tools	Insulated Torque Wrench 3/8"	6472024	1	\$978.02	Recommended	Y
HV Tools	Insulated Torque Wrench 1/2"	6473457	1	\$1,038.26	Recommended	Y
HV Tools	torque screwdriver set	6473458	1	\$525.03	Recommended	Y
HV Tools	insulated crimper 30 - 6 Awg 7"	6473459	1	\$60.03	Recommended	Y
HV Tools	wire stripper 6 - 3/8 overall 20 to 10	6473460	1	\$54.15	Recommended	Y
HV Tools	insulated water pump pliers v-jaw	6473461	1	\$100.28	Recommended	Y
HV Tools	insolated hex key set 10pc metric	6473462	1	\$307.25	Recommended	Y
HV Tools	Long SAE Natural insulated hex key set 12 pc	6473463	1	\$395.54	Recommended	Y
HV Tools	bit driver	6473464	1	\$123.61	Recommended	Y
HV Tools	Stubby Bit Driver	6473465	1	\$43.55	Recommended	Y
HV Tools	Wiha insulated "bitFlip" Set	6472034	1	\$76.52	Recommended	Y
HV Tools	Mini Screw Driver set	6473466	1	\$130.61	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC Small	6471958	1	\$819.27	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC Medium	6473412	1	\$819.27	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC Large	6473413	1	\$819.27	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC XL	6473414	1	\$819.27	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC 2XL	6471962	1	\$915.69	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC 3XL	6471963	1	\$983.12	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC 4XL	6471964	1	\$1,065.04	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 2PC 5XL	6471965	1	\$1,146.97	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC Small	6471966	1	\$651.16	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC Medium	6473415	1	\$651.16	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC Large	6473416	1	\$651.16	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC XL	6473417	1	\$651.16	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC 2XL	6473418	1	\$874.07	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC 3XL	6471971	1	\$874.07	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC 4XL	6471972	1	\$874.07	Recommended	Y
PPE	ARC Flash Protection Clothing Kit - 1PC 5XL	6471973	1	\$874.07	Recommended	Y
PPE	Balaclava Head Cover one size fits all	6473440	1	\$48.49	Recommended	Y
PPE	Hard Hat and Face Shield one size fits all	6368561	1	\$381.25	Recommended	Y
PPE	Fall Saftey Harness 425LBS	6473270	1	\$257.12	Recommended	Y
PPE	Black electrical glove kit, Size 7	6471976	1	\$148.99	Recommended	Y
PPE	Black electrical glove kit, Size 8	6473420	1	\$148.99	Recommended	Y
PPE	Black electrical glove kit, Size 8.5	6471978	1	\$148.99	Recommended	Y
PPE	Black electrical glove kit, size 9	6471979	1	\$148.99	Recommended	Y
PPE	Black electrical glove kit, Size 9.5	6473421	1	\$148.99	Recommended	Y
PPE	Black electrical glove kit, size 10	6473422	1	\$144.63	Recommended	Y
PPE	Black electrical glove kit, Size 10.5	6473423	1	\$208.10	Recommended	Y
PPE	Black electrical glove kit, size 11	6473424	1	\$151.86	Recommended	Y
PPE	Black electrical glove kit, size 12'	6473425	1	\$144.63	Recommended	Y
PPE	HV Blanket 3' x 3'	6473431	1	\$495.41	Recommended	Y
PPE	Blanket Clamp 9-1/2" L, 5" Opening	6473432	1	\$35.02	Recommended	Y
PPE	Glove Dust 0.5oz	6473433	1	\$90.86	Recommended	Y
PPE	Rescue Hook 6FT	6400745	1	\$577.87	Recommended	Y
PPE	Defibrillator Adult	6473177	1	\$2,901.96	Recommended	Y
PPE	Brady Personal Lockout Pouch Kit	6473441	1	\$132.62	Recommended	Y
PPE	Steel Lock Hasp with Tab	6473442	1	\$16.40	Recommended	Y
PPE	American lock A1106RED	6473443	1	\$22.77	Recommended	Y
PPE	Lock Out Tag (pk of 25)	6473444	1	\$29.47	Recommended	Y
PPE	Hv Warning sign	6473436	1	\$19.26	Recommended	Y
PPE	Arc Flash Warning sign	6473437	1	\$14.30	Recommended	Y
PPE	steering wheel covers	6473439	1	\$72.28	Recommended	Y
PPE	Cart - Safety Barricade System (up to 75ft)	6491772	1	\$1,711.68	Recommended	Y

Fresno Area Express – Fresno, California
Option Proposal for 40' Fuel-Cell Electric Transit Buses

Tab 6, Publications

Solicitation Requirements:

Publications.

New Flyer Response:

Please refer to the attached Publications for Fresno Area Express' review. As per the base contract, Publications are included in the bus price.

CONTRACT DELIVERABLES PROPOSAL		PUBLICATIONS rev a. February 15, 2023	
PRIMARY CUSTOMER NAME	Fresno Area Express		
PUBLICATIONS CUSTOMER NAME	Fresno Area Express		
BID NUMBER	2023-008		
SR #			
BUS MODEL	XHE40		
QUANTITY	2		
CUSTOMER PROGRAM MANAGER			
PROPULSION SYSTEM	Siemens - E-Drive All Electric Propulsion System includes. PEM 1DB2016, 160 kW Traction Drive Motor, Inverters, E-drive Controls and related components		
FUEL SYSTEM	Hydrogen - 5 Hexagon Lincoln ACF tanks. Total capacity is 37.5 kg.		
PROPULSION SYSTEM BATTERIES	Xalt - TBD kWh total capacity		
24V BATTERIES	Odyssey group 31 Absorbed Glass Mat (AGM) maintenance free batteries. 1150 CCA.		
AIR COMPRESSOR	Powerex - Scroll-type, Electrically driven Air Compressor		
AIR DRYER	Haldex - "Gemini MDx" Tandem air dryer (includes Multi-Treatment Catridge) with consep oil/water separator.		
COOLING-Fuel Cell	Modine - 9 electric fan		
COOLING-Drive Unit	EMP - 2 fan, cooler for Traction motor and inverters		
COOLING-ESS	Modine - Battery Thermal Management System		
FRONT AXLE	M.A.N. - VOK-07-F GAWR 15,873 lbs., Disc brakes, Hub mount, Knorr cylinders		
REAR AXLE	M.A.N. - 5.67:1. Model HY-1350-F. GAWR 28,660. With disc brakes, hub mount, Knorr cylinder, Ferodo lining.		
BRAKE STROKE MONITORING	MGM - eStroke		
POWER STEERING	Sheppard - M110 Gear Box and Berendsen pump		
ABS	Meritor WABCO - 24V		
HVAC UNIT	TK - TE15 Rear Mount all electric		
HVAC CONTROLLER	TK - Intelligaire III		
HVAC COMPRESSOR	TK - electric, integral to the HVAC unit		
CABIN HEAT	Valeo - Thermo DC200 Electric		
DEFROSTER	MCC		
FLOOR HEATING	MCC		
PLC MULTIPLEX	Vansco - VMM 1615		
WINDOWS	Arow Global - non-Flush mounted		
ENTRANCE DOOR	Vapor - slide glide, pneumatic		
EXIT DOOR	Vapor - wide slide glide, pneumatic		
STRUCTURE	Carbon Steel/Ferritic SST (12 year corrosion warranty)		
INTERIOR LIGHTING	New Flyer - LED, 24 VDC		
VIDEO SURVEILLANCE	Safety Vision System		
DRIVERS SEAT	USSC 9100 ALX		
PASSEGER SEATS	American Seating - Insight		
PASSEGER SEAT - Capacity	38		
DESTINATION SIGNS	Hanover - 24V LED		
BIKE RACK	Provisions		
WHEELCHAIR RAMP	New Flyer - SmartRider Entrance door, 32"w 1:6 slope		
KNEELING - Front	New Flyer - SmartRider Automated Levelling and Kneeling		
KNEELING - Rear	N/A		
FIRE DETECTION	New Flyer - Detectors in all ESS Enclosures		
DIAGNOSTIC & MONITORING	New Flyer - CONNECT w/o Driver Maneuver Awareness System		
AVM SYSTEM	N/A		
AVA/AVL/APC SYSTEM	Trapeze TripSpark System (Documents supplied direct to customer)		

New Flyer Standard Bus Publications				This is for one XHE40 Build of 2 Buses Only	
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS	
Emergency Responder Guide (8.5x11 laminated paper)	2	With First Bus Delivery	6	Emergency information to be on board each bus	
Operator's Guide (8.5x11 3-hole)	2	With First Bus Delivery	6		
Parts Manual	2	Within 30 Business Days After Last Bus Delivery	6		
Service Manual	2	Within 30 Business Days After Last Bus Delivery	6		
Bus System Drawings Manual (11x17 3-hole regular paper includes air, electr, hydraulic, cooling, PLC HVAC layouts and schematics)	2	Within 30 Business Days After Last Bus Delivery	6		
TIV USB	2	Within 30 Business Days After Last Bus Delivery	6	USB Includes only NF Manuals plus OEM items below with ***	
Sub Total					
OEM Supplier Publications				This is for one XHE40 Build of 2 Buses Only	
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS	
Siemens E-Drive Propulsion System OEM Vendor Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		*	
ELFA3 System User Guide (Safety, Installation, Operation, Maintenance, Diagnostics and Parts information documents)	2	"	N/A	includes PEM Traction Drive Motors, Inverters, E-drive Controls, and related components	
Ballard Fuel Cell OEM Vendor Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier			
FCMove Fuel Cell System User Guide	2	"	N/A	*	
XALT Energy ESS Battery OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier			
XALT Energy XMOD ESS Battery User Manual	2	"	N/A	*	
Modine BTMS OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier			

BTMS Service Manual	2	"	N/A	*
Thermo King HVAC OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Unit Operation & Maintenance Manual	2	"	N/A	*
Intelligaire III Diagnostic Manual	2	"	N/A	*
Traction Motor/Inverter Cooling System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
EMP Traction Motor and Inverter Cooler Service Manual	2	"	N/A	*
EMP Traction Motor and Inverter Cooler Troubleshooting Manual	2	"	N/A	*
Fuel Cell Cooling System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Modine eFan Oil Cooler Service and Diagnostic Manual	2	"	N/A	*
Valeo Cabin Heater System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Thermo DC200 Workshop Manual	2	"	N/A	*
WABCO ABS System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
ABS Maintenance Manual	2	"	N/A	*
MGM Brake Stroke Monitor OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
MGM eStroke RS232 Diagnostic Document	2	"	N/A	*
Destination Sign OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Hanover Operation & Maintenance Manual	2	"	N/A	*
Video Surveillance OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Safety Vision OEM Manuals	2	"	N/A	*
Vansco Multiplexing System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Hardware User Guides	2	"	N/A	*
Software User Guides	2	"	N/A	*
Sub Total			\$3,300.00	

