This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 1	1.11	
Proposer: New Flye	r of America Inc.	
	Adjustments, Price Adjustm	ents
Page: 13	•	
Questions/clarificat	ion or approved equal:	
New Flyer requests a	pproval to modify the follow	ving section to read:
legislation or regula	tions that become effecti	nything else to the contrary contained herein, in the espect of changes that are mandatory as a result of ve after the date of the proposal submission, such faith by the City of Greenville and the Contractor.
Revision provides for	required price adjustments	in event of changes in regulations.
		4
Agency action:	☐ Approved	U Denied
	☐ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Proposer: New Flyer of America Inc. RFP Section: Delays, Delays Page: 15 Questions/clarification or approved equal: New Flyer requests approval to modify the following section to read:only if the delay was due to the neglect or failure of the City of Greenville, or such other event beyond its control including but not limited to, relates to a natural disaster, floods, fires, acts of war or terrorism, or strikes, labor shortages, or lock-outs or shortages or loss of transportion and was substantially and in fact the cause-for the Contractor to miss the established delivery dates	Request #: 2		
RFP Section: Delays, Delays Page: 15 Questions/clarification or approved equal: New Flyer requests approval to modify the following section to read: only if the delay was due to the neglect or failure of the City of Greenville, or such other event beyond its control including but not limited to, relates to a natural disaster, floods, fires, acts of war or terrorism, or strikes, labor shortages, or lock-outs or shortages or loss of transportion, and was substantially and in fact the cause for the Contractor to miss the established delivery dates.	1	of America Inc	
Page: 15 Questions/clarification or approved equal: New Flyer requests approval to modify the following section to read: only if the delay was due to the neglect or failure of the City of Greenville, or such other event beyond its control including but not limited to, relates to a natural disaster, floods, fires, acts of war or terrorism, or strikes, labor shortages, or lock-outs or shortages or loss of transportion. and was substantially and in fact the cause for the Contractor to miss the established delivery dates. and the duration of the extension, acting reasonably. The City of Greenville shall notify the Contractor of his decision in writing, and upon acceptance, the time for completion of the work and/or the delivery dates shall be extended by the City of Greenville by a reasonable period of time after such event of delay has ended in order that the Contractor may complete the work or deliver the buses. Revisions clarifies force majeure provision. □ Denied □ Denied □ See response below			
New Flyer requests approval to modify the following section to read:only if the delay was due to the neglect or failure of the City of Greenville, or such other event beyond its control including but not limited to, relates to a natural disaster, floods, fires, acts of war or terrorism, or strikes, labor shortages, or lock-outs or shortages or loss of transportion, and was substantially and in fact the cause for the Contractor to miss the established delivery dates and the duration of the extension, acting reasonably. The City of Greenville shall notify the Contractor of his decision in writing, and upon acceptance, the time for completion of the work and/or the delivery dates shall be extended by the City of Greenville by a reasonable period of time after such event of delay has ended in order that the Contractor may complete the work or deliver the buses. Revisions clarifies force majeure provision. Approved Denied See addendum See response below		•	
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See addendum ☐ See response below	and was substantiallyand the duration of the Contractor of his decision and/or the delivery datime after such event deliver the buses.	and in fact the cause for the extension, acting reasion in writing, and upon a stee shall be extended by of delay has ended in or	on lock-outs or shortages or loss of transportion. ne-Contractor to miss the established delivery dates. onably. The City of Greenville shall notify the acceptance, the time for completion of the work
See addendum ☐ See response below		1	
☐ See addendum ☐ See response below	Agency action:	☐ Approved	☐ Denied
		☐ See addendum	
	Agency response:		
			The state of the s

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Request #: 3	116.	The first way of the second of		
Proposer: New Flyer o	f America Inc			
RFP Section: Documents, Delivery				
Page: 16	,			
Questions/clarification	or approved equal:			
New Flyer requests app possible schedule:	roval to provide build-spe	ecific technical manuals according to the below earliest		
- Bus Operator's Guide	s - With First Bus Deliver	y		
- Bus Service and Parts	Manuals - 10 Business	Days After First Bus Delivery		
		Business Days After First Bus Delivery		
offer the above best pos	iic, changes and modifica sible schedule	tions may occur up to bus line exit, and therefore we		
	M Approved			
Agency action:	☑ Approved	© Denied		
	See addendum	CI See response below		
Agency response:				

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 4	The state of the s	2 day
Proposer: New Flye	er of America for	
RFP Section: Docu	ments, Undates	
Page: 16	aposition	
Questions/clarifica	tion or approved equal:	
New Flyer requests a This does not include	antiform objects of levolune	s to New Flyer published bus technical manuals only. manuals. It is the responsibility of each OEM
Bus Parts Manuals a maintained for a peri	re maintained for a period cod of 6 years. Bus manuals	of 12 years, all other Bus technical manuals are can be updated with either revised PDF files on DVD the Issue. Manual Bulletins are delivered in PDF
Agency action:	N Approved	☐ Denied
Agency action.	☐ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 5 Proposer: New Flyer of RFP Section: Docume Page: 16		
Questions/clarificatio	n or approved equal:	
on all components how	ever, for more detailed info	Elyer published bus manuals which include information ormation on major components such as Engine, and supply the OEM supplier published manuals.
Agency action:	⊠ Approved	☐ Denied
	See addendum	LI See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

remainder of the paragraph except the follow proceeding thereunder. The Centractor shall The obligationscaused solely by the neglig	oll: ollowing section to read. ages, claims, demands, liens, encumbrances. bcontractors and suppliers.; and (2)[delete entire ving sentence.] Each party shall property or other
RFP Section: Indemnification, Indemnification Page: 17 Questions/clarification or approved equal New Flyer requests approval to modify the formand all proven third party liabilities, dama judgmentsreasonable attorney's feessub remainder of the paragraph except the follow proceeding thereunder. The Centractor shall. The obligationscaused solely by the negligible.	nt: ollowing section to read. ages, claims, demands, liens, encumbrances. bcontractors and suppliers.; and (2)[delete entire wing sentence.] Each party shall promptly or other I have sole[delete remainder of the paragraph]. gent
Page: 17 Questions/clarification or approved equal New Flyer requests approval to modify the formand all proven third party liabilities, dama judgments reasonable attorney's fees subtremainder of the paragraph except the follow proceeding thereunder. The Contractor shall The obligations caused solely by the negliging	nt: ollowing section to read. ages, claims, demands, liens, encumbrances. bcontractors and suppliers.; and (2)[delete entire wing sentence.] Each party shall promptly or other I have sole[delete remainder of the paragraph]. gent
New Flyer requests approval to modify the formand all proven third party liabilities, dama judgments reasonable attorney's fees subtremainder of the paragraph except the follow proceeding thereunder. The Contractor shall The obligations caused solely by the negligible.	ollowing section to read. ages, claims, demands, liens, encumbrances. bcontractors and suppliers.; and (2)[delete entire wing sentence.] Each party shall promptly or other have solo[delete remainder of the paragraph]. gent
New Flyer requests approval to modify the formand all proven third party liabilities, dama judgments reasonable attorney's fees subtremainder of the paragraph except the follow proceeding thereunder. The Contractor shall The obligations caused solely by the negligible.	ollowing section to read. ages, claims, demands, liens, encumbrances. bcontractors and suppliers.; and (2)[delete entire wing sentence.] Each party shall promptly or other have solo[delete remainder of the paragraph]. gent
and all proven third party liabilities, dama judgmentsreasonable attorney's feessub remainder of the paragraph except the follow proceeding thereunder. The Contractor shall The obligationscaused solely by the negliging	ages, claims, demands, liens, encumbrances, bcontractors and suppliers; and (2)[delete entire wing sentence.] Each party shall promptly or other have sole[delete remainder of the paragraph].
Revisions remove defense provision in inderr	nnity and limits indemnity to proven third party losses
Agency action:	Denied
☐ See addendum	n ☐ See response below

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 7 Proposer: New Flyer RFP Section: Materia	of America Inc. als/Accessories, Materials/	'Accessories
Page: 17		
New Fiver requests as	on or approved equal: oproval to modify the follow	
Ton Type roguests ag	shrovae to tribothy the 10410A	ving section to read
construction of the t	ous, on a commercially re	easonable industry standard. This provision.
Revisions adds reason		
	☐ Approved	
Agency action:	☐ See addendum	☐ Denied
Agency response:	in was addrived	C See response below
inguitar respective,		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 8	Amariaa taa			
Proposer: New Flyer of America Inc RFP Section: Buy America Audit, Buy America Audit				
Page: 19				
Questions/clarification	or approved equal:			
New Flyer requests appr	roval to add the following	paragraph to the Buy America Audit section:		
agreement with the Co	ntractor prior to comme	and agents agree to enter into a confidentiality noing an audit, review or analysis in order to Contractor's information.		
Revision provides for a confidentiality agreement in the event of an audit to protect New Flyer's proprietary interests.				
proprietary marcora.				
	7			
Agency action:	☐ Approved	☐ Denied		
	CI See addendum	☐ See response below		
Agency response:				

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Request #: 9 Proposer: New Flyer of RFP Section: Post-De Page: 22		e, Post-Delivery and Final Acceptance
Questions/clarificatio	, ,	
ivew river reduests ap	provar to add the below as	last sentence of the first paragraph:
The acceptance proceentitled "Acceptance	ess shall be performed in of Bus".	accordance with the section of the contract
Revision cross-reference	ces the earlier acceptance	provision, for certainty in the contract.
	<i></i>	
Agency action:	☐ Approved	☐ Denied
	L) See addendum	See response below
Agency response:		

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P***		White the state of
Request #: 10	. f a	The last officers of course
Proposer: New Flyer	of America Inc.	
Page: 22	ate of Acceptance, Certific	cate of Acceptance

New Flyer requests the	on or approved equal:	
replace it with the folio	acold document be altered pwing :	d to Delete paragraph on Conditional Acceptance, and
accepted bus, but sh to the cost of rectifyi the Contractor, acting amount until the deficithe City of Greenville Revision adds reasonall a bus is conditionally	nall be entitled to withhol ng the identified deficien g reasonably. The City on ciency relating to such was acting reasonably.	to revenue service and Croomitte will
Agency action:	☑ Approved	☐ Denied
Agency action,	LI See addendum	☐ See response below
Agency response:		
		7

City of Greenville, North Carolina

BID #16-17-31

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 11 Proposer: New Flyer of America Inc. RFP Section: License to Subject Data, License to Subject Data Page: New Questions/clarification or approved equal: New Flyer Requests to modify the section to read All "subject data", including specifications, technical data, records and reports, engineering drawings (including shop drawings and working drawings), manuals and instruction materials and computer or microprocessor software that is delivered or specified to be delivered under the contract shall remain the property of the Contractor; provided however, the City of Greenville shall have a royalty-free, non-exclusive, non-transferable and irrevocable license to use such subject data only for the purposes of operating and maintaining the buses. Revision provides for clarification of license of City to use subject data. The said "subject data" is the IP of New Flyer and is the core of it's business. We are able to provide the City license to access and use the "subject data" for the purpose of operating and maintaining the buses. □ Denied Agency action: □ See addendum LI See response below Agency response:

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Proposer: New Flyer of America Inc. RFP Section: Access to Onboard Operational Data (NOTE: Only applicable NF Connect), Access to Onboard Operational Data Page: New Questions/clarification or approved equal: New Flyer requests approval to modify the section to read: The City of Greenville grants the Contractor the right to inspect, examine, download, and otherwise obtain any information or data available from components provided by the Contractor including, but not limited to, any electronic control modules or other data-collection devices, to the extent necessary to enable the Service Provider to perform reliability maintenance analysis, corrective action and/or other engineering-type work for the buses. Please note that this is only applicable to New Flyer Connect System and is requested in order to better service the City. We ask for access to on-board data on electronic and data-collection devices for maintenance, corrective action and engineering-type purposes. Agency action: Connect System and is requested in order to better service the City. We ask for access to on-board data on electronic and data-collection devices for maintenance, corrective action and engineering-type purposes.	37%		10 00 00 00 00 00 00 00 00 00 00 00 00 0
RFP Section: Access to Onboard Operational Data [NOTE: Only applicable NF Connect], Access to Onboard Operational Data Page: New Questions/clarification or approved equal: New Flyer requests approval to modify the section to read: The City of Greenville grants the Contractor the right to inspect, examine, download, and otherwise obtain any information or data available from components provided by the Contractor including, but not limited to, any electronic control modules or other data-collection devices, to the extent necessary to enable the Servcie Provider to perform reliability maintenance analysis, corrective action and/or other engineering-type work for the buses. Please note that this is only applicable to New Flyer Connect System and is requested in order to better service the City. We ask for access to on-board data on electronic and data-collection devices for maintenance, corrective action and engineering-type purposes. Agency action: Approved Denied Denied See addendum See response below	Proposer: New Flyer	of America Inc.	
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Questions/clarification or approved equal: New Flyer requests approval to modify the section to read: The City of Greenville grants the Contractor the right to inspect, examine, download, and otherwise obtain any information or data available from components provided by the Contractor including, but not limited to, any electronic control modules or other data-collection devices, to the extent necessary to enable the Servcie Provider to perform reliability maintenance analysis, corrective action and/or other engineering-type work for the buses. Please note that this is only applicable to New Flyer Connect System and is requested in order to better service the City. We ask for access to on-board data on electronic and data-collection devices for maintenance, corrective action and engineering-type purposes. Agency action:	(NOTE: Only applicab	le NF Connect], Access to	Onboard Operational Data
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The City of Greenville grants the Contractor the right to inspect, examine, download, and otherwise obtain any information or data available from components provided by the Contractor including, but not limited to, any electronic control modules or other data-collection devices, to the extent necessary to enable the Servcie Provider to perform reliability maintenance analysis, corrective action and/or other engineering-type work for the buses. Please note that this is only applicable to New Flyer Connect System and is requested in order to better service the City. We ask for access to on-board data on electronic and data-collection devices for maintenance, corrective action and engineering-type purposes. Agency action:	Questions/clarificati	on or approved equal:	
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Agency action: ☐ See addendum ☐ See response below	including, but not lin the extent necessary corrective action and Please note that this is service the City. We as	ited to, any electronic content to enable the Servcie Pillor other engineering-ty only applicable to New Files for access to on-board of	nable from components provided by the Contractor, ontrol modules or other data-collection devices, to rovider to perform reliability maintenance analysis, pe work for the buses. yer Connect System and is requested in order to better late on electronic and data collection, to it.
Agency action: ☐ See addendum ☐ See response below			
☐ See addendum ☐ See response below		/	
	Agonou ortino	S/ Approved	∷ Denied
	Agency action:	* *	
	Agency action: Agency response:	* *	
		* *	
		* *	
		* *	
		* *	

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Request #: 13 Proposer: New Flyer of RFP Section: INSIDE Page: 23	NOISE ABATEMENT.	
	on or approved equal:	
New Flyer requests ap exceed 78 dBA.	proval to provide a bus in v	which the noise level in the driver's area does not
	÷	
	© Approved	[Denied
Agency action:	□ See addendum	☐ See response below
Agency response:	,	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 14		A THE STATE OF THE
Proposer: New Flye	er of America Inc	
RFP Section: OUTS	FIDE NOISE ABATEMENT,	
Page: 23	TENERAL PORTEINERY	
Questions/clarificat	ion or approved equal:	
External: New Fiver of	can provide the following:	
Idle Sound Levels @	5,500 rpm (max EMP fan s	chonde):
Curbside = 68 dB	wie and their friends made 1800 5	speads),
Streetside = 83 dB		
Pull-away sound leve	ls @ 5,500 rpm (max EMP	fan ennodot
Curbside = 72 dB	A Land A Shirt Green WINE	raic spacus).
Streetside = 84 dB		
All values above are r	measured values. All meas	surements are +/- 5db, should be added to
the sound level measi	Iramente choup about du	e to discrete audible frequencies, and are
mancurad in asserta-	and to ADTA	s to apprete administrations, and are
meddared in accordar	nce to APTA procurement g	juide standards.
	, i	
Agency action:	MApproved	D Denied
rigonoy dotton.	☐ See addendum	☐ See response below
Agency response:		
J 3		

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Request #: 15 Proposer: New Flyer RFP Section: COOLIN Page: 25		
New Flyer requests ap New Flyer is proposing reduced maintenance a	this system to lower Life- and greater up-time.	MH4 radiator with electric fans. Cycle Costs as result of improved fuel economy, ation on the proposed cooling system
Agency action:	□VApproved ☐ See addendum	☐ Denied ☐ See response below
Agency response:		





SALES INFORMATION BULLETING AND BOTH

#231-005 | Madel: Xcelsior | Lengths: 35, 40, 8, 60, | Propulsions: Diesel & Chic (Excluding 60)

EMP Electric Cooling System-WH4 46X4336D6

Value Proposition

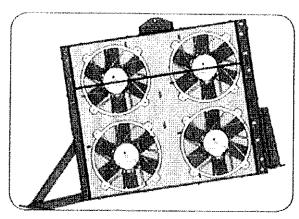
Tower Life-Cycle Costs as result of improved fuel economy, reduced maintenance and greater up time.

Product Features

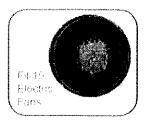
- . Four 15" tans and motors are maintenance free
- · One piece welded throug assembly
- Heat exchangers are high performance, rrigged airtiminum bar/plate with fully machined cast and weided tanks
- EMP Fil. APTA specified rans with linger duard (passes IQA tests with this quard). Brishless motor with integrated controller. Robust aluminum shroud and controller body, maintenance free.
- Simputed harness with no address resistors and 57% less signal wires than previous model
- EMP Thermal Management Controller (TMC 11939 CAN communication to vehicle, engine, transmission or hybrid drive (if eq. ipped)
- · TMC is capable of tracking 103 items for the life of the vehicle
- · FMP has service tool with hill dashboard
- · Full diagnostics package
- Hybrid applications require must incunted cooler

Benefits

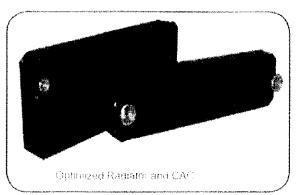
- Better Cooling Performance: EMP's all-electric cooling meets all performance specifications and demonstrates better cooling performance at slower engine speeds than conventional hydraulic systems.
- Improved Fuel Economy: Customers have reported 5%-7% reduction in fuel consumption over conventional hydraulic country systems
- Increased System Reliability: Electric cooling systems (to not have the same wherent risk of reliability concerns such as hydraniac leaks. In addition, EMP offers a lower fin count than other e-fan systems, which reduces heaf exchanger clogging.
- Ease of Maintenance: EMP's electric cooling system incorporates brushless motor with an integrated controller that is maintenance free. In addition, the system incorporates a reverse fan feature for cleaning the radiator.



MrH 4GX43560G 4 fans (151) Full Osignostin







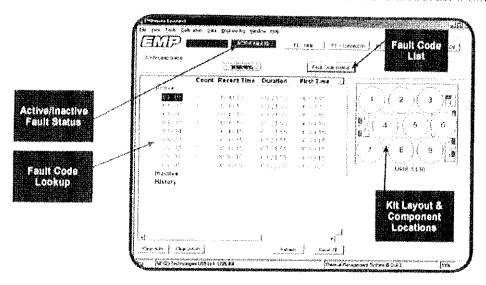




SALES INFORMATION BULLETIN

Full Diagnostics

As an optional feature, an E-trink & full diagnostics package is available with the EMP cooling system. With this diagnostics package technicians can analyze valuable information related to individual rans, controllers and fuses via pc based software as shown below.



Operations/Procedures

The electronic cooling system is an electric-only fan system that replaces the traditional hydraulic driven inechanical but. The system is electronically controlled to cool both charged intake air and engine coolant separately.

The electric fams are divided into 2 groups

- 1, browns coolant fans
- 2. Shared faris

The facts operate at variable speeds and intervals as dictated by the Electronic Fam Controller. The system is independent or engine speed and control, is capable of providing full-load cooling at engine idle, and induces the likelihood of engine compartment hires by enmination the hydracoic fan system.

Maintenance is easy with a manual reverse feature. The manual reverse system allows the funs to turn in the opposite unection. Instead of sucking an into the radiator, the reverse fan pushes the air from the engine compartment to the outside resulting in tripremoving of dirt and debris accumulated in the radiator fin:





SALES INFORMATION BULLETIN

Service/Repair

Cleaning

In the event that the engine overheads and the skatchlever and thermostat operation have been found to be satisfactory, it may be decessary to clean and fluch the entire cooling system. In do so, immove scale formation by using a regulable and rafe de scaling solvent immediately after using the de-scaling solvent, neutralize the system with a neutralize.

Reverse flushing

After the radiator has been thuroughly croned, it should be reverse flushed, it everse dushing in accompanied by her some, under pressure, being forced torough the cooling system in a direction apposite to the named this of content. This will leasen and force deposits out.

Miscellaneous cooling checks

In addition to the above cleaning procedures, the other components of the cooling system should be checked procedures, the other components of the cooling system times, thermostats and surge tank pressure cap should be checked and replaced if found to be defective.

When water connection seals and hoses are installed, be sure the connecting parts are properly aligned and the seal or hose is in its proper position before tightening the clamps. All external leaks should be corrected as soon as detected.

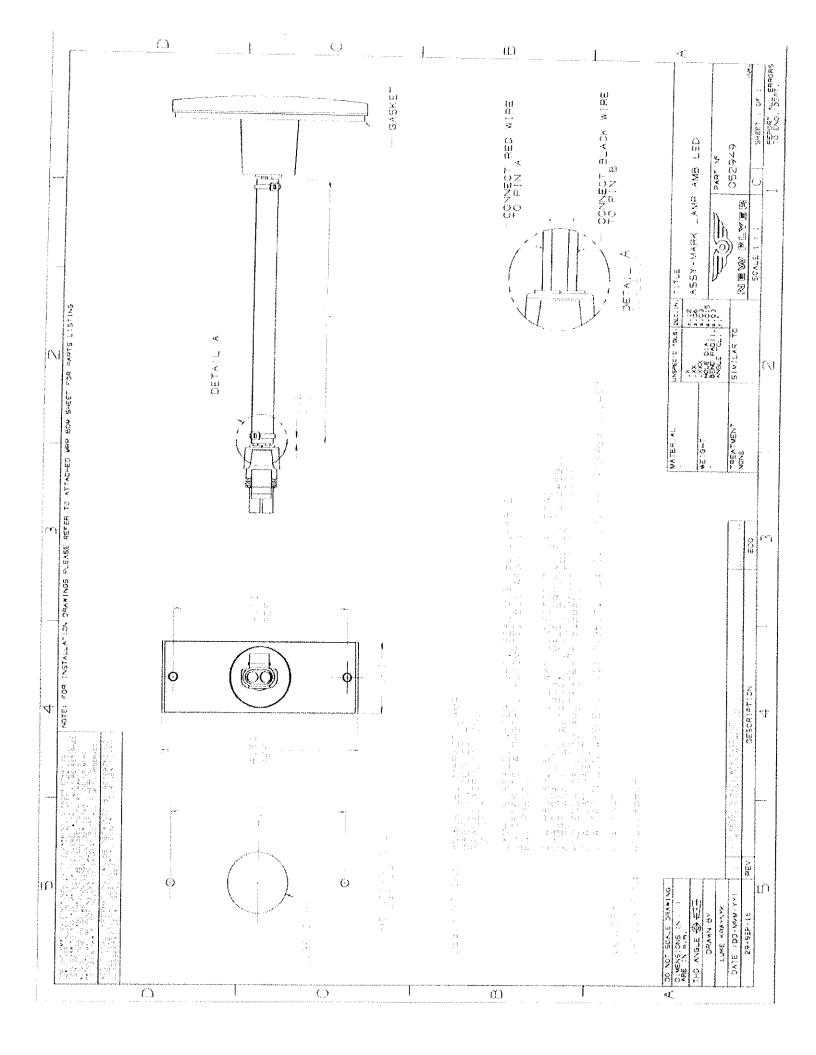
The lan should must be properly positioned and light against the ordinary cone to prevent recirculation of air synich may lower the conting afficiency.

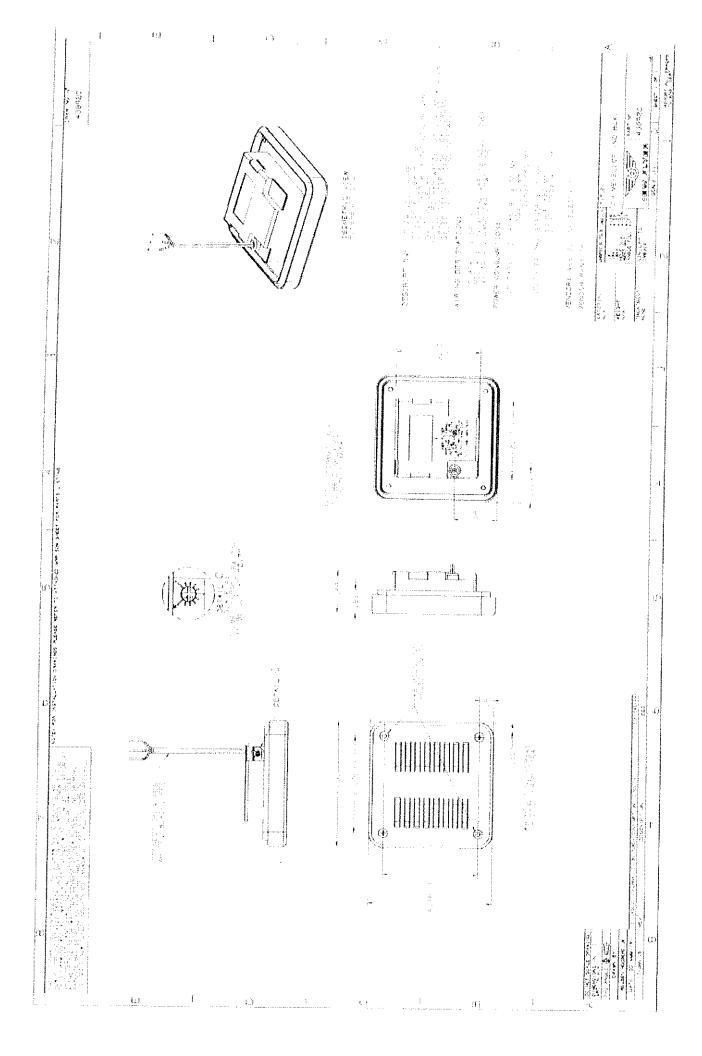
Maintenance

Refer to the Preventive Maintenance Section of the New High Maintenance manual for scheduled maintenance intervals and requirements (EMP Troubleshooting Manual):

Warranty

- Basic warranty is 3 year/150,000 miles
- · Extended svarranty packages available





This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Duc Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 16		
Proposer: New Flyer of	America Inc.	
RFP Section: COOLING	G SYSTEM,	
Page: 25		
Questions/clarification	or approved equal:	
water filter is no longer r water filter redundant.	required as modern coolar	for a water filter. Per latest input from Cummins, a nts contain anti-corrosion additives, rendering the
Please Review Attachm	ent F for additional inform	ation and confirmation
	⊠ Approved	⊜ Denied
Agency action:	□ See addendum	© See response below
Agency response:		

To connect the intake air temperature/pressure sensor with the engine harness, a jumper wiring harness is required. The jumper wiring harness is available from Cummins in 4 ft, 7 ft, or 10 ft lengths. The engine harness breakout connector for the intake temperature/pressure sensor is located below the turbocharger. For additional details please refer to AEB 15.140.

E. Turbocharger System

An electronically actuated variable geometry turbocharger (VGT) water-cooled design is used on ISL9 2013 engines, now with a smaller frame size. The 12 V VGT is machined from solid (MFS) compressor wheel. The 24 V VGT is also a MFS compressor wheel. No OEM plumbing and wiring is required to support this VGT control. The electronic turbocharger actuator will have increased torque capability and avoids the need for external coolant lines. The actuator will continue to be mounted on the top of the turbocharger

Five turbocharger locations will be offered: Low Mount Rear Out (LMRO, aLMRO), Middle Mount Rear Out (MMRO), and High Mount Rear Out (HMRO, HMRO-SF). Please see GCE for additional details on these locations and offerings.

The turbocharger compressor exhaust outlet pipe connection is a full marmon designed for 103 mm (3.5 in) diameter tubing. The air transfer connections (IT option) are all carry over from the ISL2010 engine. Additional details can be found on GCE.

F. Exhaust Gas Recirculation (EGR) System

The ISL9 2013 engine is equipped with a cooled EGR system, similar to the ISL2010 engine with valve durability improvements. The EGR control valve is mounted on cold side of the engine. The EGR components (valve body, plumbing, etc.) surface temperature can reach over 218 °C (425 °F) during normal operation. Some components will be wrapped to minimize the impact on the OEM components. Care should be taken in routing OEM components, such as harnesses, hose and other heat sensitive hardware near these components.

G. Compressed Air System and Accessory Drives

Cummins/Wabco single cylinder 18.7 CFM air compressor with balanced pressure reduction valve and 125 ft-lb drive through torque capability is continued on the ISL9 2013 engine. The air compressor has an 11-tooth, SAE A Rear Flange and supports either natural aspiration or turbocharged aspiration applications.

Additionally, Cummins/Wabco single cylinder 18.7 CFM air compressor with 155 ft-lb drive through torque capability is available on the ISL9 2013 engine. The air compressor has a 13-tooth, SAE 22-4 spline, 101-2 rear flange (SAE B), and supports either natural aspiration or turbocharged aspiration applications. A Cummins/Wabco twin cylinder 30.4 CFM air compressor with a 13-tooth, 155 ft-lb/ 11-tooth, 125 ft-lb drive through torque option, turbocharged or naturally aspirated, is also available. No non-Cummins or OEM supplied air compressors are allowed.

The air discharge port is a M27 x 2 straight thread o-ring connection and is oriented to the back of the engine. Other discharge fitting options are available. Please check the option database on GCE for the available CD options, or contact your Cummins application engineer for further information.

Optional gear driven accessory drive (HD 9099) is available on the fuel pump side of the engine on the front gear housing when no air compressor is used. The drive runs at engine speed (1.1 ratio) and is clockwise rotation (viewed from the front of the engine). This is the same direction as the engine. The maximum torque capability of the drive is 240 Nm (180 lb-ft) at the accessory drive gear (82-2 rear flange with a 19-4 spline).

In order to provide the required drive torque, the spline shaft of the accessory must engage the spline drive on the engine properly. For more details, see AEB 20.11 "Automotive and Industrial Installation Requirements - Air Compressor Systems".

H. Cooling System

The coolant flow curves for the ISL9 2013 are shown on the GCE web site under ISL9 2013 Ratings. The maximum allowable top tank temperature will remain 107 °C (225 °F). The nominal setting for the radiator pressure cap must be a minimum of 103 Kpa (15 psi). A fully deaerating cooling system and a low coolant level sensor are required

The corrosion resistor (WF option) is not required on the ISL9 2013 engines. Cummins will not support engine-mounted corrosion resistor options. However, optional, off-engine mounted, kitted WF options (filter, filter head, fittings, and bracket) is available. OEM's will have to provide the plumbing to complete the filter installation. OEM's may also install their own corrosion filter (remote mounted), provided it meets Cummins specifications. See the ISL9 2013 installation drawing on the GCE website for details on supply location and return locations.

All coolants must meet the standards documented in AEB 99.01 "Engine Coolant Performance Specifications". The ISL9 2013 engine cooling system is compatible with extended life coolants without adding silicates.

See the engine installation drawing for OEM connection details. See performance curves & datasheets for the heat rejection data.

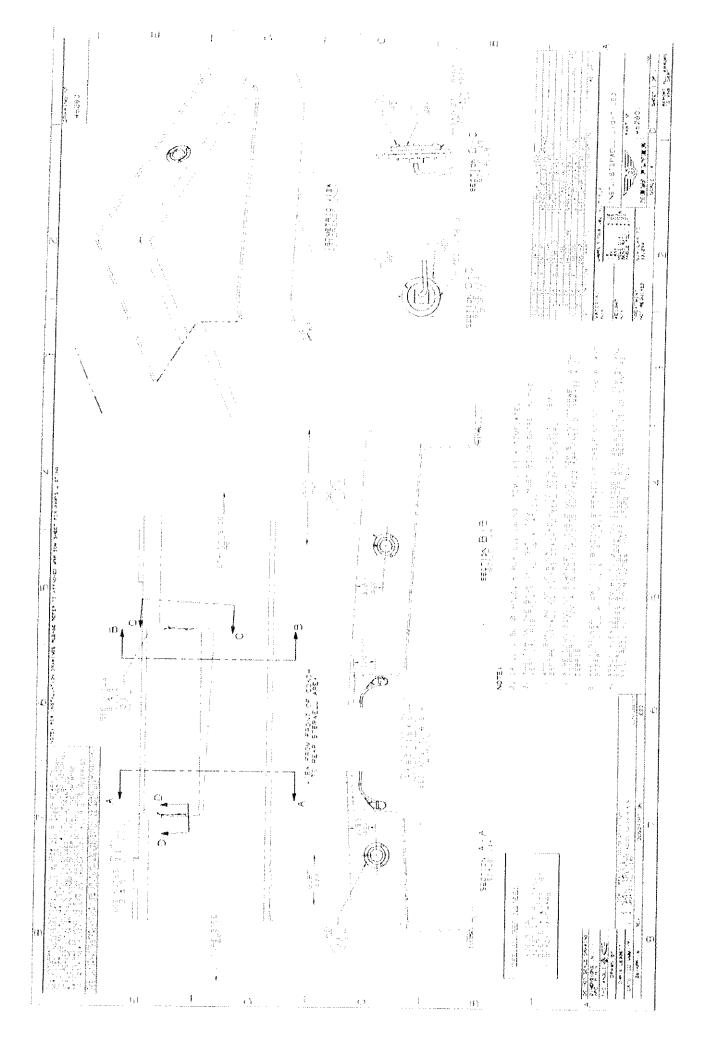
On the ISL9 2013 engine, there are two coolant vent ports on the HMRO turbo configuration option (one on the top front of the EGR cooler and the other on the top of the EVGT actuator) that must be vented to the radiator top tank. The vent line must be installed by the OEM. The VG turbo has a water-cooled bearing housing. The two engine coolant vents may be connected together to provide a single engine vent connection to the coolant tank. The MMRO and LMRO only have one vent location on top of the EGR cooler. See the ISL9 2013 installation drawing on the GCE website for the details. Coolant venting must comply with AEB 21.50.

The middle coolant ports along the top side of the cylinder head are not accessible for OEM use. Only the front and rear ports are available; the port size remains the same at 1/2 inch NPT on the top side of the cylinder head and 3/4 inch NPT on the rear of the cylinder head. Please see the ISL9 2013 installation drawings on the GCE website for additional details.

Cab heater supply is available from the upper port on the block at the rear of the engine and through the ports on the cylinder head. The lower port on the block (3/4 inch NPT) is not available for cab heater supply. The coolant coming out the cab heater must be returned to the water inlet connection, close to the water pump. See the ISL9 2013 installation drawing on the GCE website for details on supply location and return locations.

The maximum draw of coolant from the engine towards accessories - (Cab heater, fuel tank heater, sleeper cab etc) is a maximum of 10 gpm @ 2200 rpm from the cylinder head ports combined. A maximum of 20 gpm @ 2100 rpm can be drawn from the port on the cylinder block and cylinder head combined but should not exceed the max draw of 10 gpm @ 2100 from cylinder head ports. Air Compressor coolant flow, DEF coolant flow and TK bypass flow are excluded from this maximum flow requirement.

With the introduction of the SCR system, one of the ports that was previously available for customer use continues to be used to supply coolant to the SCR system. Coolant is then returned to the water pump inlet or water inlet connection. SCR coolant supply must comply with AEB 21.112 Figure 8: Cooling System ports illustrates that ports that will not be available to the OEM due to the introduction of SCR.



This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 17 Proposer: New Flyer o RFP Section: COOLIN Page: 25		
Questions/clarification NF requests approval to different vendor.		ey are functionally equivalent to Otiker but from a
Agency action:	☐ Approved ☐ See addendum	□ Denied f¥See response below
Agency response: ⋈	ost Mest Pay A	सीरकार के के के

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 18		
Proposer: New Flyer of	America Inc.	
RFP Section: DRIVE SH	HAFT, DRIVE SHAFT	
Page: 26		
Questions/clarification	or approved equal:	
These products are simil	ar in performance and us	ries propeller shaft supplied by Prop Shaft Supply Inc. e, however New Flyer doesn't presently work with ce versus selection based on Brand Name.
	/	
Agency action:	Approved	○ Denied
Agency action.	□ See addendum	☐ See response below
Agency response:	\$1,471,700,000,000,000,000,000,000,000,000,0	
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This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 19		
Proposer: New Flyer of	America Inc.	
		BS. WHEELS AND TIRES
Page: 26		The state of the s
Questions/clarification	or approved equal:	
prattorm can only accoming the size drivetrain etc). The tire size	modate 305/70R22.5 tire would essentially requir ze are purposely selecte e. The proposed tires ha	XinCity Z size 305/70R22.5 tires, New Flyer's Xcelsion is. These tire dimentions are inherent to the busing a bottom up redesign of the bus (frame, body, do support the weight of the bus and provide riders a velocoven reliable in revenue service on our North eximately 9000 buses.
Agency action:	₩ Approved	☐ Denied
agono, notion.	□ See addendum	☐ See response below
Agency response:		M

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 20 Proposer: New Flyer of RFP Section: HUBS, 1 Page: 26		
Questions/clarificatio	n or approved equal:	
NF requests approval to protrude from the wheel	o remove the requirement at, mitigating the risk of it b	for a Hubodometer guard. The hubodometer does not eing damaged.
Agency action:	☑ Approved	M Denied
	□ See addendum	니 See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 21		With the second
Proposer: New Flyer	of America Inc.	
RFP Section: SUSPE	NSION, SUSPENSION	
Page: 27		
Questions/clarification	on or approved equal:	
New Flyer requests ap	proval to delete the requer	ement for Anti-Sway bars. Our Xcelsior model has
I produce the rate of the dist	and rang change tost Mili	FOUR INCHES ICE SOME AND AND SOME SOME SOME SOME SOME SOME SOME SOME
Anti-Sway bars add we proposed application.	eight and decreased fuel e	fliciency and are therefore not recommended for the
highosen application:		
Agency action:	C/Approved	□ Denied
	🗆 See addendum	□ See response below
Agency response:		
		THE PARTY OF THE P

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 22	The state of the s	1 December 1981 April
Proposer: New Flyer	of America inc	
RFP Section: SUSPE	NSION	
Page: 27		
Questions/clarification	on or approved equal:	
New Flyer requests an	onicens ehiporo of Involu	functionality that is at the full discretion and control of flate when the front door is closed.
	/	
Agency action:	Approved	☐ Denied
Agency action,	□ See addendum	I See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions"

Request #: 23		A Carrier Comment of the Comment of
Proposer: New Flye	r of America Inc.	
RFP Section: STEE	RING,	
Page: 27		
Questions/clarificat	ion or approved equal:	
New Flyer requests a	pproval to provide the She	ppard M110 Steering Gear.
Sneppard Co., Inc. h Pennsylvania.	as a rich history and Ameri	can manufacturing excellence. Located in Hanover,
Please review Attach	ment G for additional inform	naiton on the offered Sheppard M110 steering gear
	U Anyrouad	
Agency action:	El Approved	☐ Denied
	☑ Approved □ See addendum	☐ Denied ☐ See response below
Agency action: Agency response:		





DESCRIPTION & CHART

The M110 is designed for heavy duty vocational truck and bus applications with a front axle rating between 16,000 and 20,000 lbs $\,$

			Park Cales			
Frank Anda Danas	6-10k lbs	10-14.6k ibs	10-14.6k lbs	14.6:: 18k lbs	14.6-18k lbs	18-23k lbs
Front Axle Range	[2700-4500 kg)	(4590-5600 kg)	(4500-6600 kg)	(6609-8200 kg)	(6600-8200 kg)	(8200-10400 kg
Output Torque	35,058 in-lbf	45,416 in lbf	46,345 in∃bf	1dl ni 00E,02	59,760 in lbf	78,825 in-lbf
@ Rated Pressure & 90% Efficiency	(3961 Nm)	(5134 Nm)	(5236 Nm)	(6700 Nm)	(6752 Nm)	(8906 Nm)
Rated Pressure	2,683 psi	2,681 psi	12,350 psi	2,175 psi	2,756 psi	2,175 psi
Minimum Puma Flow	(185 bar)	(185 bar)	(162 bar)	(150 bar)	(190 bar)	(150 bar)
多LS HWI/A	2.4 GPM	3.0 GPM	3.0 GPM	3.5 GPM	3.9 GPM	4.8 GPM
	(9.1 LPM)	(11 4 LPM)	(11.4 LPM)	(13.5 LbW)	(14.8 LPM)	(18,2 LPM)
Pump Flow Range	2.4-3.4 GPM	3.0 4.0 GPM	J.0-4.0 GPM	3.5-4.5 GPM	3.9-4.9 GPM	4.8-5.8 GPM
Single Steering Grad	(9.1-12.9 LPM)	(11.4-15.1 LPM)	(11.4-15.1 (PM)	(13.2-17.0 LPM)	(14.8-18.5 LPM)	(18.2-22.0 LPM
Ratio	16.9:1	15.9:1	1891	23.0:1	16.9:1	23 0:1
Gear Travel	95'	95.	95'	100*	95.	96.
Normal System	-40 to 220 F	-40 to 220 'F	-10 to 220 F	40 to 220 F	-40 to 220 'F	96 40 to 220 F
Operating Temperature	(-40 to 104 °C)	(-40 to 104 °C)				
	250 'F	250 °F	250 'F	250 F	250 F	250°F
Not-To-Exceed Temperature	(121 °C)	(121 °C)	(121 °C)	(151,0)	(131 °C)	(121 °C)
	2.00 in	2.00 in	2.00 in	2.25 in	2.25 in	2.50 in
Output Shaft Diameter	(50.8 mm)	(50.8 mm)	(50.8 mm)	(57.2 mm)	(\$7.2 mm)	(63.5 mm)
	60 (bs	70 lbs	75 lbs	110 lbs	85 lbs	150 (bs
Approximate Dry Weight Pump Flow Range	(27.2 kg)	(31.8 kg)	[34.0 kg]	[49.9 kg]	(38.6 kg)	(68.0 kg)
tud Streeting Gears @10 HWT/18 90% flictency						
	4.0-5.5 GPM	4.5-6.0 GPM	4.6-6.1 GPM	5.0-6.5 GPM	5.3-6.8 GPM	6.0-7.5 GPM
w/ MD83 Slave	(15.1-20.8 LPM)	(17.0-22.7 LPM)	(17.4-23.1 LPM)	(18.9-24.6 (PM)	(20.1-25.7 LPM)	(22.7-28.4 LPM)
		5.0-6.5 GPM	5.1-6.6 GPM	5.5-7.0 GPM	5.5-7.0 GPM	6.5-8.0 GPM
w/ HD94 Slave	N/A	(18.9-24.6 LPM)	(19.3-25.0 LPM)	(20.8-26.5 LPM)	(20.8-26.5 LPM)	(24.6-30.3 LPM)
			5.3-6.8 GPM	5.6-7, 1 GPM	,==:,::::::::::::,	6.6-8.1 GPM
w/ M100 Slave	N/A	N/A	(20.1-25.7 LPM)	[21.2-26.9 LPM]	N/A	(25.0-30.7 LPM)
				6.0-7.5 GPM		7.0-8.5 GPM
w/ M110 Slave	N/A	N/A	N/A	(22.7-28.4 LPM)	N/A	(26.5-32.2 LPM)
				6.5-8.0 GPM	6.5-8.0 GPM	7.3-8.8 GPM
w/ \$0110 Slave	N/A	N/A	R/A	(24.5-30.3 LPM)	(24.6-30.3 LPM)	[27.6-33.3 LPM]
						3.0-9.5 GPM
w/ XD120 Slave	N/A	N/A	N/A	N/A	N/A	(30.3-36.0 (PM)
Output Torque Range					·	
Rated Pressure of Master Gear & 90% Riciency						
	70,116 in-lbf	80,497 in-lbf	77,052 in-ibi	87,720 in-lbf	95,772 in-lbf	107,245 in-lbf
w/ MD83 Slave	(7922 Nm)	(9095 Nm)	(8706 Nm)	(9911 Nm)	(10821 Nm)	(12117 Nm)
	, i	90,878 in-lbf	86,144 in lbl	96,133 in-lbf	106,435 in-lbf	115,661 in-lbf
w/ HD94 Slave	N/A	(10258 Nm)	(9733 Nm)	(10862 Nm)	(12026 Nm)	[13068 Nm]
		,	92,690 in ibl	102,194 in-lbf	•	121,719 in-lbf
w/ M100 Slave	N/A	N/A	(10473 Nm)	(11546 Nm)	N/A	(13752 Nm)
ŀ		1		118,600 in-lbf		138,125 in-lbf
w/ M110 Slave	N/A	N/A	H/A	(13400 Nm)	N/A	(15606 Nm)
				106,462 in lbf	119,520 in lbf	125,987 in-lb(
w/ SD110 Slave	N/A	N/A	N/A	(12029 Nm)	(13504 Nm)	(14235 Nm)
1						157,650 in-lbf
w/ XD120 Slave	N/A	N/A	N/A	N/A	N/A	(17812 Nm)

	3 AL	104	124	13.24	14.2k	184	1.6%	≱íŧ	2 534	> 112
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164	***************************************									
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This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

	2 ()	with the state of
Request #: 24		
Proposer: New Flyer of	America Inc.	
RFP Section: STEERIN	NG, STEERING	
Page: 28		
Questions/clarification	or annioved equal:	
New Flyer's grease fitting	ror approved equal.	Committee and the second of th
New Flyer's grease fittings are not all accessible to allow a rigid tube end grease gun to be used. A flexible hose end will be required.		
	The space of the	
	e e e e e e e e e e e e e e e e e e e	
	· ·	
Agency action:	© Approved	L3 Denied
	See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 25 Proposer: New Flyer o		1 1 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
RFP Section: FUEL TANK (DIESEL), FUEL TANK (DIESEL) Page: 28				
The Xclesior(r) platform choosing the polyethele Whitebook guidelines ar	roval to provide a fuel tar baffles required to contro was designed with a guid ne fuel tank serves that g nd the tank comes with a	ik constructed of cross-linked polyethylene which still I the moving of the liquid inside the tank. deline to reduce weight and improve fuel efficiency and oal. The entire fuel system is compliant to APTA 1yrs/50.000miles warranty nation on the proposed Diesel Fuel Tank		
Agency action:	의 Approved	☐ Denied		
	☐ See addendum	CI See response below		
Agency response:				





SAESINIOINAVIONEEDNE

7/1: 00) Modell Celler Length Field (P. and 60) Proprieta Designation

Polyethylene Diesel Fuel Tank

Product Features

The fuel system aid tudes

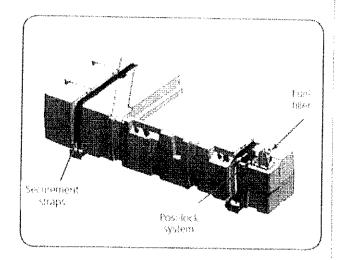
- · Single cross-linked polyethylens faet tank
- · Fortimes and check valve
- Fuel blight
- Fuel pump
- · Fuel filler

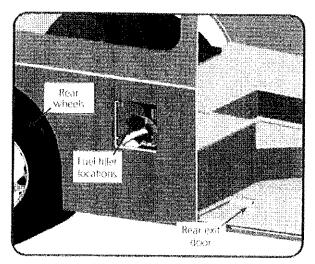
Fuel Tank

A vanile fael tank is inpunted transversely in the vehicle chasse, torward of the real axle. A fuel filler neck assembly is boiled to the tank and provides meanting locations for the fuel-tiller adopter, measure rolled valve, and fired-level control valve. The tank bil access is provided through a funded door on the curbside of the vehicle. Supply and reform fuel hoses connect the fuel tank with the engine.

The tank is constitucted of cross-linked polyethylene with a notine trafflickness of 0.300°. The tank is internally balified to preyent first slosting regardless of fill level.

- Ail lengths of diesel buses come standard with a 125 useable US Gai (4731)-size tank and holds up to 1441US gallons (5451).
- Non-artic diesel-hybrid buses come standard with a 100 usesable US Gal (378 t)-size tank and holds up to 144 US galkins (545 t).
- Artic disseletiybrid buses come standard with a 125 useable. US Gal (473 U-size tank and holds up to 144 US gallions (545 L).









SALE NEORMATION BURETIN

Art Starting

The firelitanic assembly is securely meanted to the bus with two support channels on both sides and a tuburar structure or the center. The firelitanic is mounted to the support channels by means of straps to prevent movement. The lightweight design of the tank and the design of the tank supports make the tank easy to remove for maintenance.

Fuel Lines

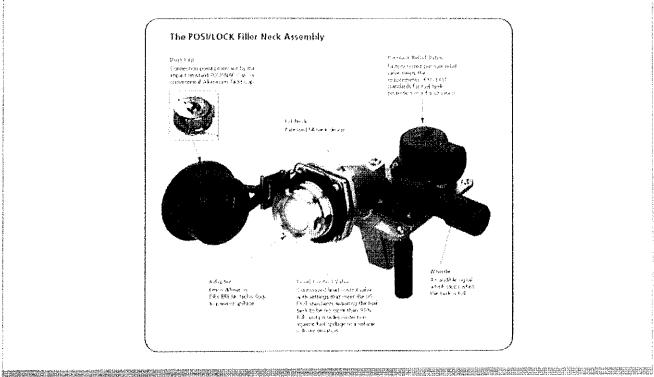
The Xcelbor' has comes standard with a hipfogrecompliant find system. The trietlines from the find tank to the buildlead are rigion triefgrade tubing and drange in color in both 341° and 4/21° outer diameters. Find lines in the engine compartment are faton GH100 deserand biodiesel compatible horses. No copper hand lines are used, only standess steel.

Fuel Filters

The primary fuel filter is bracket-mounted on the curboide of the enone compartment. The filter assembly closusts of a tifty bracket mounted a replaceable spin on filter element, with a Warer in hiel school and water drain valve. The secondary fuel filter is bracket mounted on the curboide of the enginesis impartment. The titler is embly consists of a filter head and a replaceable spin on filter element with a Water in fuel sensor and water drain valve.

Fuel Filler

By default, Xcelsion's offered with an Emiss PC/MI OCK 105 automate, dry-break fueling filler system although autometrican request a non-pressure fall-type system as an option. The dry-break fael filler is a cated to-fund the rear door on the curbands of the law. By faller cap is received into the bas hooly behind a langed access door. The filler accommodates a 15 ° diameter notzle and a fill rate of 40 °C gallons (15.1.0) per minute of foam-tree fuel without spitting back or causing the nozzle to shut off before the tank is full. An addible signal indicates when the tank is essentially full.







27 (2000)

Operations/Procedures

On engine start-up, the fift pump draws fool from the fuel tank through a primary fuel filter. The level pressure side of the fuel pump discharges fuel through the fuel manifold, the secondary fuel filter and to the inlet of the high pressure fuel pump. High pressure fuel is delivered through a common fuel rail to the fuel ejectors. Surplus fuel returns to the fuel facility are tank through a return line.

Service/Maintenance

Replacement of the primary and secondary fuel filter is recommended every 6,000 miles (9,600 km), so, months, or 500 operating hours, whichever clames first. Opening of the drain at the bottom of the fuel tank to drain afficient and/or sediment is required every 30,000 miles (48,000 km). Every 60,000 miles (95,000 km) or twelve months, whichever comes first, all fuel tank mountings and brackets should be lightened. At the same time, the fuel tank copises, the breather hole in the cap, and the condition of the floothefuel lines should be checked. A thorough inspection of air first hoses is required annually for cover damage and for damaged, worn, twisted, crimped, buttle, crackert or leaking lines. Replacement of all boses in an out-of-anaptoriety every five years or during major overhaults recommended.

Examples of detailed maintanance and repair instructions from existing hus service maintais can be supplied upon request

Warranty

Fuel system componenets are covered by a 1 year, 50,000 mile warranty

Compliance

The Xeekser* fael system is compliant to APTA Whitebook guidelines. The five pickup lexistion ensures continuous full power operation on a six percent appraise for more than 15 menutes starting with no more than 25 US gallons (95 U) of feel over the unusable amount in the tank for the 40° bus. The bus will operate at ridle on a six percent downgrade for more than 30 minutes starting with no more than 10 US gallons (38 U) of feel over the unusable amount in the tank.

"Report TR09-35 Xueision" Fuel Tank 6% grade Test

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 26	0000000 000 000 000 000 000 000 000 00	
Proposer: New Flyer o	f Arangiaa Inn	
RFP Section: FUEL TA		
Page: 28	NAV (DIEQEE),	
Questions/clarification		
visible through the fuel t	irovai to provide a permar fill door.	nent decal with the requested information that is not
	· ·	
Agency action:	TS/Approved	□ Denied
Agency action.		☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions. Clarifications and Omissions."

Request #: 27 Proposer: New Flyer of RFP Section: FUEL TAI Page: 29			AND A STATE OF THE A TOTAL ASSESSMENT ASSESS
Questions/clarification			
NF requests approval to			
Please review Attachmer	nt C for detailed informati	on on the CNG rack.	
	/		
A	⊡∕Approved	(1 Denied	
Agency action:	El See addendum	☐ See response below	
Agency response:			

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 28 Proposer: New Flye RFP Section: FUEL Page: 29	r of America Inc. TANK (CNG). Storage Tan	ks
New Flyer requests a Solutions.	ion or approved equal: pproval to provide Type 4 /	All Carbon Fiber tanks manufactured by Agility Fuel mation
Agency action:	G∕Approved ⊟ See addendum	☐ Denied ☐ See response below
Agency response:		





SALES INFORMATION RULLERIN

241-001 | Madel Xcelstort | Lengths: All | Propulsions: GNG

Fuel System - Compressed Natural Gas (CNG)

Product Features

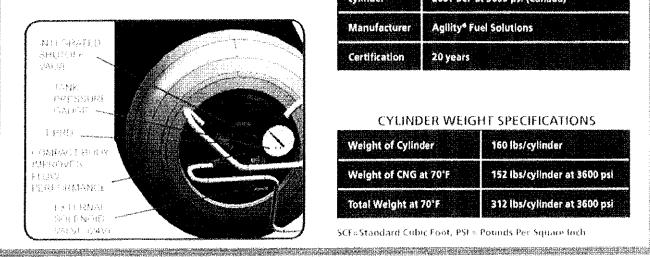
New Eyer has more expenence on the CNG builtedingly than any office bus manufacturer in the indiastry. Our design has been proven in the industry with over 7,000 units delivered since 1994.

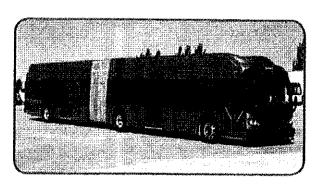
Dur CNC system is designed specifically by New Dyrk for our buses, which allows fall product control it is designed for 350 - 400 mile range and convenient, curbside fueling remains compatible with existing fueling procedures

Tanks Storage

All proposed roof-mounted tanks are 15 7° OD x 120° long all carbon fiber cylinders manufactioned by Agility' Facil Solutions. Each cylinder has a capacity of 3295 standard cubic feet (SCE) at 3600 ps (USA) and 2881 SCF at 3000 psr (Canada, if applicable). This adows for fewer tanks

Each cylender has a OMB ESA solenoid valve installed at the neck to electrically control the fuel to the engine. The OMB ESA valve is the best available because of it's simported design with improved tlow performance. The integrated manual shutoff valve is compact, ergonoms; and easy to turn. The external 24V solenoid valve is easier to access and service. The OMB ESA also includes an in-valve temperature pressure relief device (EPRD).





XCELSIOR TANK STORAGE SPECIFICATIONS

Number of Tanks	35' 5 or 6 tanks 40' 6 or 7 tanks 60' 8 tanks
Dimensions	15.7" OD x 120" long
Valves	Electrically controlled solenoid valve
Matérial	All Carbon Fiber (ACF)
Tank type	Type 4
Capacity per cylinder	3295 SCF at 3600 psi (USA) 2881 SCF at 3000 psi (Canada)
Manufacturer	Agility ^e Fuel Solutions
Certification	20 years

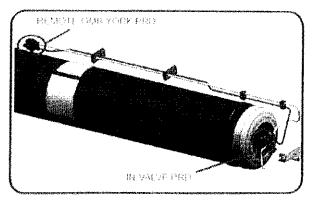
CYLINDER WEIGHT SPECIFICATIONS

Weight of Cylinder	160 lbs/cylinder
Weight of CNG at 70°F	152 lbs/cylinder at 3600 psi
Total Weight at 70°F	312 lbs/cylinder at 3600 psi

SCF#Standard Cubic Foot, PSI = Pounds Per Square Inch

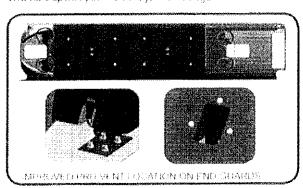


The system is equipped with a CNC Solenoid Fault Detection module. (SED). Whele active, the SED module will constantly be checking the condition of the selenoid wiring and coils for either an open circuit or short circuit. If there is a fault situation, the SFD module will diaminate an LED on the front cover that corresponds to the solenoid circuit that has the problem. Furthermore, a common lauft signal will be enabled. This fault signal is detected by the Box I/O system and communicated to the driver. The SFD system will automatically reset itself once an open crosit has been repaired and corrected.



Two temperature-activated pressure relief devices (PRDs) protect each tank in accordance with the bontire testing. One is a remote OMB York PRD and the second is an invalve PRD. Using the invalve PRD reduced components, tittings and tubes while providing necessary safety in case of a thermal event. Having two PRDs per tank also notites each individual tank for improved safety

Safety is further improved by pigving the location of the PRD venty. from the side of the CNG rack to the end quards, which allows the vents to point vertically upward. In case of a thermal event, this will allow the CNG to vent straight up and away from any nearby objects. The vents are recessed in the rear end quards to protect the vent tube opening from blockage and damage



PRD's are thermally activated, not pressure activated and will activate at 230% (110°C). Activation of the PRD will cause the gas in the tanks to escape through the tank PRD venting system.

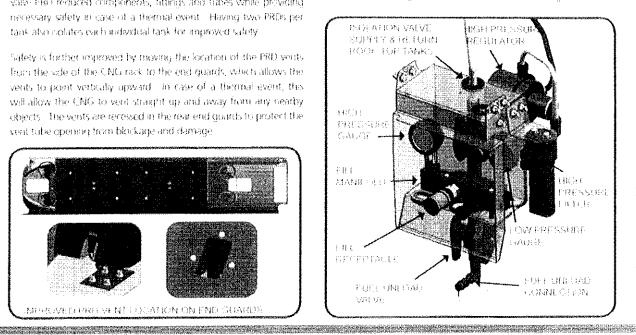
The fuel exhibiters are secured in saddles with straps and are soluted with engineered rubber extrusions. They are enclosed in a tiberalasi should with top opening suggestions along with. end quards the end quards protect the CNG cylinders tone turkate in the event of an impact.

the roof-top racks and end quarts that hold the fuel cysoders are made of carbon steel and are bot-dip palvanized using zinc for corresion protection, Hotalip galvanizard is a consistent. saidle process application which provides a harder coating to resist chipping and scratching. In addition, hot-dip galvanizing has an expected life in excess of 18 years and does not generale hazardous waste during the application process.

The system is designed to allow for maximum a seven-innuity fill (dependant on fill station at neads to compliment the design. of the system).

Engine Compartment Components

Other components necessary to operate the CNG fuel system are located on the ugist hand sale of the employ compartment, mounted in the back side of the fill box panel. These components include a requiator, which is heated with engine cookint,





SALSSINEONWATION BULLETIN

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and a Raycor primary filter. A flexible base delivers fuel to the engine, which is simplied by litetics and its entitled to Africa NGV 3-17 CSA-12-3. The if I Coportlow regulator regulates the pressure from 3600 psi to 94 - 120 psi to finel the engine. They are the standard in the industry.

Fill Box

The fact-fill system consists of a Sherex 3630 Sense receptable which is compatible with the Sherex 1000 Sense nozzle. It complies to the NSV-1 standard profile which means you can use any manufacturer's NGV-1 nozzle and it will function.

A 1/4 furn manual shut-off valve isolates the reof tanks from the rest of the system which includes a Baycor high pressure primary filter, a U-6000 psi pressure gauge and a 0-200 psi gauge follare compliant with ANSI NGV 3-17 CSA 12.3 standard).

the fill panel has allowance for two fill receptacies. Provisions for fuel de-tueling is provided with a quick connect fitting.

Fuel Lines

All CMG fittings installed on New Fiyer buses are made by Swagelok?, which are noted for being the best in the industry All stuniess steel lines are supported in accordance with NEPA52, do not touch one another or any steel lines and are labeled with yellow permanent self-adhesive decals. Tubing is bright annealed high-quality stainless 304 or 316 seamless conforming to ASTM A269 to requirement of Swagekik).

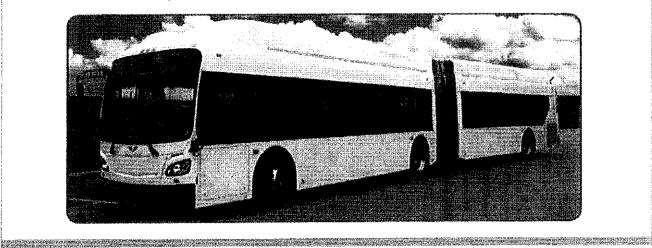
the engine line is a literlex hose which also has a special resistant thermoplastic elastonier sleeve for corrosion protection, abrasion resistance and a suitable labeling surface.

An SSI distribution block manifold in the supply fine heigh optitrize pluroung by reducing the number of cubes and little (5, 3s) there is only one tube going to each tank from the distribution block. The block manifold is tested to withstand block pressure and operational cycling pressures as per NGV all standards.

Benefits

Some of the key production staff has been with New Flyer since we started building CNG huses in 1994. They have a tremendons amount of knowledge which they are continually transfering to new employees, resulting in consistent and miliable installation of systems.

- New Eyer's CNG system is very robust and is proven by a demonstrated track record. New Fiyer has over 7,000 buses in the field.
- The New Fiver system safety vent order of 2 PRO's per tank in a passed the bentile test
- The system exceeds all CNG standards or requirements in these areas
 - While not required by law or standard. New Flyer includes a sofety standard of fire suppression in the engine compartment.
 - For safety purposes, we label all of the CNG fuel lines so trial they are distinguishable from other lines in the fige.
 - The mounting of the ω of-top modules are designed and tested to the $8g^*$ directional load test per US and Canadian standards
 - 'e= quavity

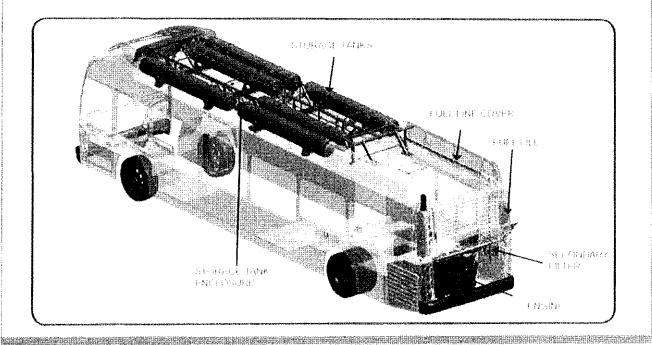




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- The CNG tanks used from Agrity Fuel Solutions are tested and certified for a 20 year life meeting the inclustry standard.
- The PkD vent lines are cated at full system pressure (3600 ps).
- Relocating PRD vent location from the side to the end quards allows vents to point up vertically per NEPA 52, emproving safety.
- Several pressure tests are performed during production to ensure first-time quality
- The New Elger-supplied low-pressure (120ps) side plumbing between the CNG regulator and engine meets the more stringent system pressure of 3600ps including the flexible line (hisse).
- New Hyer established internal standards for SST raise handling during manufacturing to ensure clean, scrarchifree products
- The modular roof-top system allows for variable tank quantity configurations for up to 3 tanks depending on bus length.
- We use the tank strap-mounted CNG cylinders which allows for an even load distribution
- Galvanized tank racks have a life expectancy of over 18 years

- All of the main components are housed in or attached bening the side till box and both the root top package and side in box are modular in design allowing for easier servicing.
- The root-top tank plumbing taces inward for impact protection and ease of service.
- Semple design combined with a larger finel line cap achievelaster fill as ventied on actual buses. Fell times are dependent on the fill station and capacity or bus finel storage system.
- For a 40° bus, the only flexible line (fiere) is located on the few pressure side (120 psi) connecting chassis plumbing to emotic fuel infet, making it a more robust system. It uses a poly overwrapped hose that is non abrasive compared with the standard SSI braid hose.
- The overall plumbing system is very durable and simple in design and execution, leading to high performance and easy labrication for first time quality.
- The follocation and assembly of all CNS plumbing is all done in thruse allowing up to moint an a high standard of first-time quality.
- The CMB ESA tank selection valve improves their performance, while the integrated manual shot off valve is compact
 and easy-to-use.





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- The hinges and latches on the roof-top doors are designed for the life of the hir.
- System has a fower particulate matter and NOs when compared to standard diesel-propelled buses.

Operations

Fuel Fill System

The fuel till receptudes are located in the engine compartment at the rear national safe of the bus and have an aluminum slamsuch exterior access door

The basic sequence of events needed to the fuel delivery process is as follows:

- 1 During normal operation, the solenoid vaive of each firel cylinder assembly is open. CNG at high pressure is allowed to flow out each cylinder and merge) to a main fire, supply line.
- 2. Through the main fuel supply line, CNG travels to the reachight of the venicle and to a quarter-turn shut-off valve.
- 3 from the shut oft valve, CNG thow, to a fuel titler block continuing a legh pressure gauge and a retrieting receptable (a minimum of one receptable is standard, a second receptable is optional).
- 4. From the filter block, natural gas is directed into a primary filter before entering the pressure regulator that reduces line pressure from 3,600 psi (24,821 kPa) to approximately 94 - 120 psi (862 kPa).
- The pressure reduced gas passes through a secondary filter before entering the engine-controlled selembid shirt-off valve and the low-pressure regulator.
- 6 Metered amounts of gas are mixed with all at the intake manifold gas mixer for eventual combustion.

A preximity switch is installed at the fuel fill access door to detect when the foel fill decr is open. This interlock will prevent the bus from starting or shut down the engine if the bus is running when the fael door is open. A dash indicator is used to notify the driver of the interlock engagement.

Fuel Unloading

Provisions are made to unload all of the fuel from the storage cylinders to a facility-based pressure gas line or storage facility. A 174 turn shotolf valve is connected to a 174" quick-connect stem litting top fuel unloading.

Service/Repair

Maintenance inspection in accordance with recommendations from the major component manufacturer and New Elyer is required.

Warranty

New Hyer afters a one-year warranty (50,000 miles) on the CNG tanks. The CNG enclosure, including the CNG tank studies and fiber glass doors, but a three year warranty (150,000 miles).

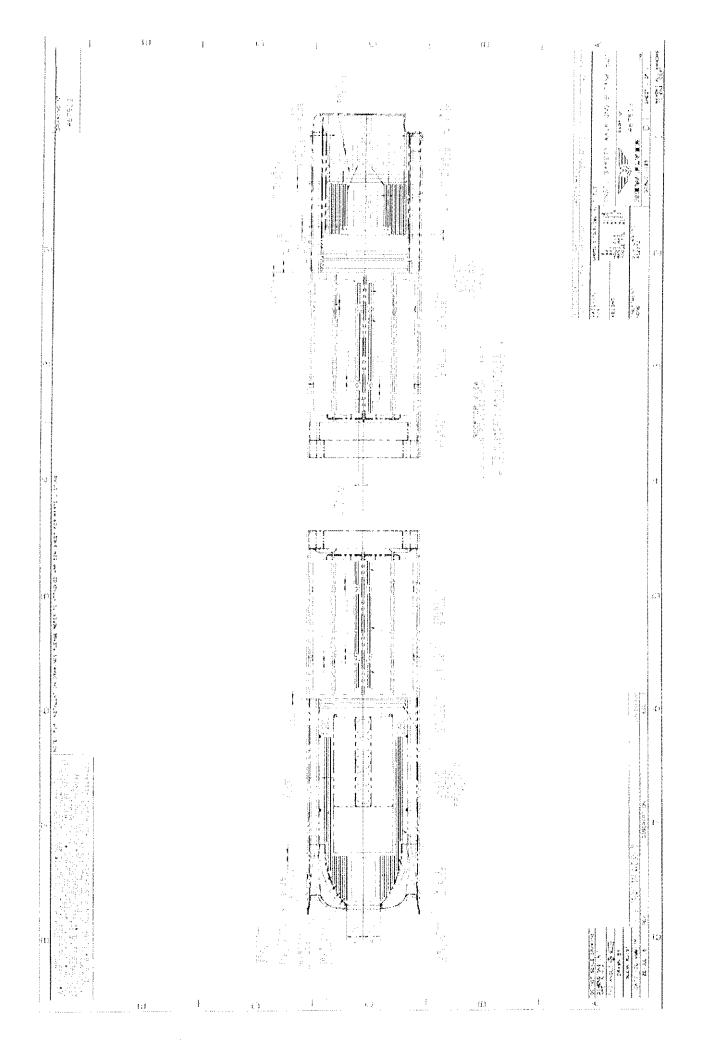
Other

New Flyer complies with all of the following standards:

- NEPA 52 CMG Venecular Natural Gas (NG) Fuel. Systems Code. (LESA)
- CSA 8 (09) National Casi for Vehicles Installation Code (Canadian).
- ANSLNGV 3: DCSA 12.3 Fuel System Components for NG Powered Vehicles (USA & Canada)
- ANSI (PR) 1 Pressure Relief Devices for NG Vehicle Fine! Containers (USA & Canada)
- ANSI NGV 2 Compressed Natural Gas Vehicle Find Containers (USA & Canada)

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Proposer: New Flyer of America Inc. REP Section: FUEL TANK (CNG), CNG Accessibility				
RFP Section: FUEL TANK (CNG), CNG Accessibility				
· · · · · · · · · · · · · · · · · · ·	RFP Section: FUEL TANK (CNG), CNG Accessibility			
Page: 29				
Questions/clarification or approved equal:				
New Flyer requests approval to delete the center walkaway requirement. Since this is not a regular mantainance area, and due to the design of the proposed bus, there is not enough room to provide a center walkway between the tanks.				
Please refer to Attachment A for drawings clearly identifying where the Safety Walk is provided on the proposed bus.	е			
Agency action: ☐ See addendum ☐ See response below				
Agency response:				



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Request #: 30			
Proposer: New Flyer of America Inc.			
RFP Section: FUEL TANK (CNG), CNG Capacity			
Page: 29	**************************************		
	tion or approved equal:		
•	approval to provide the follow	ng tank configuration:	
Standard Tank confi	guration shall be as follows:		
	s 15.7°diameter x 120° length:	5	
Capacity: 16,475 SC)F		
760 lbs of fuel			
Diesel equivalent ga			:
	ofiguration shall be as follows:		
Six (6) Tanks 15.7" (diameter x 120° length		
Capacity: 19,700 SC	;F		
912lbs of fuel			
Diesel equivalent ga	Diesel equivalent gallons:		
Agency action:	Approved	☐ Denied	
Agency action.	□ See addendum	☐ See response below	
Agency response:	Company of the second of the s		
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This form must be used for requested clarifications, changes, substitutes or approval of items equal to ttems specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Duc Date, as specified in "Questions, Clarifications and Omissions."

Request #: 32		
Proposer: New Flyer of	America Inc.	
RFP Section: FUEL FILL	(DIESEL), FUEL FILL (I	DIESEL)
Page: 30		
Questions/clarification	or approved equal:	
New Flyer requests approval to provide a standard twist cap. The flip cap does not provide a positive seal and is only available for pressure fill application, since the internal poppet valve prevents fuel from spilling. A gravity fill application is not compatible with a poppet valve and as such, a flip cap is not available for gravity fill.		
Anonou nations	Approved	☐ Denied
Agency action:	□ See addendum	☐ See response below
Agency response:	40 CO (1) 10 CO	33.00

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 33 Proposer: New Flyer of America Inc. RFP Section: FUEL FILL (DIESEL), FUEL FILL (DIESEL) Page: 30			
Questions/clarification or approved equal: New Flyer requests approval to provide diesel grade nylon fuel lines running from the fuel tank to the engine bulkhead and stainless steel and GH100 hose combination lines in the engine compartment.			
Agency action:	t⊋ Approved ⊜ See addendum	⊖ Denied ⊜ See response below	
Agency response:		•	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 34		
Proposer: New Flyer of	America Inc.	
RFP Section: AIR SYST	EM,	
Page: 31		
Questions/clarification	or approved equal:	
Orain valves are not loca sidewall and their location		nel. They are located beneath the bus, near the als
		,
Agency action:	☐ Approved	[s/Denied
Agency dollors	☐ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 35			
Proposer: New Flyer of America Inc			
RFP Section: AIR SYSTEM, AIR SYSTEM			
Page: 31			
Questions/clarification of	or approved equal:		
New Flyer requests appro	val to provide the Gemir	ni MDx Air Dryer.	
Through extensive evalua air dryer/ separator modul		rmined the Haldex Gemini MDxTM all in one tandem ra transit bus.	
Please refer to Attachmen	it B for additional informa	ntion on the Gemini MDx Air Dryer	
	/		
Agency action:	□ Approved	Lì Denied	
Ageiroy dollon.	□ See addendum	☐ See response below	
Agency response:			
•			
•			





SALES INFORMATION BULLETIN

#219-001 | Model: Xcelsion* | Lengths: All | Propulsions: All

Gemini MDxTM

Value Proposition

An adequate supply of clean, dry compressed air is critical to proper operation and extended component life for any vehicle with air brakes and pneumatic accessories. The heavy duty bus industry has many options when it comes to air dryers and contaminant separators and New Flyer has had experience with the majority of them. Torough extensive evaluation, New Flyer has determined the Haldex Germin MDx³³ all in one tandem air dryer/ separator module to be the best value for a transit bus.

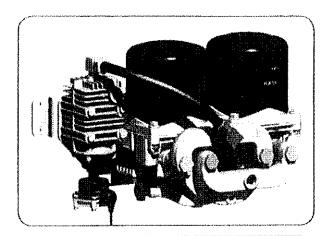
Product Features

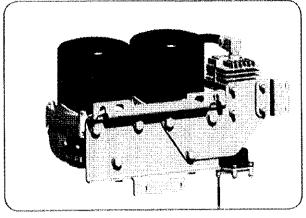
- eigh Drying Capacity (tandem parallel flow dryers):
- Effective contaminant removal (Pre-treatment step)
- 5 stage MTC+* descrant technology
- Custom manifolds for parallel plumbing of two DRYest* dryers and a Consep* separator in a single module eliminate the need for multiple littings and tubes (minimizing leak potential) and allow for minimizing usage of valuable underbody space.
- Custom hang on incuming bracket for easy installation, removal and bench-top servicing

Equipment & Operation

The Haldex Germin MDx^{ex} is composed of dual Haldex DRYest® air dryers working in parallel, packaged with a single Consep® Contaminant separator to create a single superior air freatment system.

The Consep® separator provides a pre-treatment step that condense and separate 90% of contaminants and then expells them via a heated automatic drain valve. This occurs prior to air entering the devers, reducing the amount of contaminants exposed to the dryer, thereby extending desiccant and purge and check valve life. Next, the air flows through dual Haldex DRYest* dryers intermed in parallel to handle the increased flow of the standard boosted twin cylinder air compressor. The DRYest* dryers feature 5 stage MTC+* desiccant technology, which removes the remainder of the contaminants and the vast majority of the moisture content, resulting in very low dew point air exiting the dryer package. Each dryer is also equipped with a purge valve to automatically expet the moisture and contaminants collected and to required this desiccant at each governor unload cycle, as well as a heater to ensure proper operation in sub-freezing temperatures.





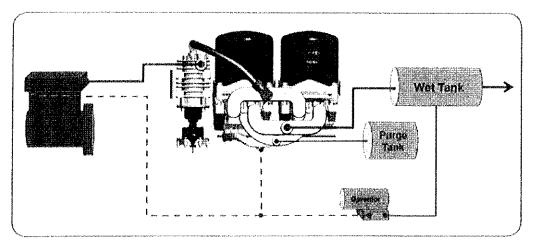
Gemini MDx Specifications

OEM	Haldex
Model	Gemini MDx
Capacity	70 SCFM
Minimum Purge Volume	600 In ³
Heaters	2 Heaters x 30VDC/140W
Weight	49 lbs
Envelope, Inches	20W x 15H x 12D





SALES INFORMATION RUPLETIN



Samplified illustration of MDz^{ea} connections

Service/Repair

The Germini Müxim is designed with a custom hang-on style bracket to facilitate easy removal of the MDxim module as a unit. This allows any servicing to be completed on a work besch and not underneath the bus, where it is awkward to work on and prone to having underbody debris falling into the diver internals causing impaired performance. Each desecant cattridge is retained by four bofts, and is serviced as a replaceable unit, avoiding mess and difficulty in handling and reassentity, thereby reducing maintenance time. With the integrated Consept separator, recommended desecant cartridge replacement is now extended to 2 year intervals. It is also recommended to service purge and check valves at this interval, as well as the Consept ADV. Haldex will be providing a complete Germini MDxim repair but through New Flyor Service Parts that contain all parts necessary to service the entire module as a convenient single part number.

Warranty

The Gemin MDx¹³ (varianty is 3 year or 150,000 miles (whichever occurs first), covering materials and workmanship, and includes parts and labor

Testing

The Haidex DRYest⁵ dryers themselves have proven themselves with many of our customers, including NYC1, LA Metro and MARTA to name just a few. Long-term testing (more than 3 years) has been conducted with very lavorable results. Haldex has also completed a 1 year test program at NYC1 which showed 90 94% of drying capacity still remained after 1 year8500 hours/49,000 miles usage on articulated bases in Manhattan CBD revenue service.

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Request #: 36 Proposer: New Flyer of RFP Section: FRAME, Page: 31	America Inc.		
Questions/clarification or approved equal: New Flyer requests approval to provide our standard Xcelsior structure that does not have the integrated side impact barriers. The hybrid (ferritic stainless/carbon steel combination) structural design has successfully completed the side impact crash-worthiness test without requiring the side impact barrier.			
	/		
Agency action:	Approved □ See addendum	⊖ Denied ⊝ See response below	
Agency response:			

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 37 Proposer: New Flyer of A RFP Section: BODY AND Page: 32		DDY AND UNDER FRAMING
Questions/clarification of	or approved equal:	
	n 0.08 inch aleminem w	or side panels made from 0.120-inch thick fiberglass nich are bonded in place using adhesives, no rivets or
	e the stylized quality of l	rame which allows for a smooth, hardware free the bus. The fibreglass surface makes for easier completely.
44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		
Agency action:	Cf Approved	☐ Denied
rigority dottori.	○ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 38		
Proposer: New Flyer of America Inc.		
RFP Section: ROOF ANI	DICEILING, ROOF AND	CEILING
Page: 32		
Questions/clarification	or approved equal:	
by an extrusion process.	This insulation is used in	th thick rigid. Polyisocyanurate foam, manufactured the roof and side wall pariels, curbside and street .088) @ 75°F for a 1" cross section. Contains no
qualities such as low water	er vapor permeability, ver	ney are designed with inherent water repelling y low water absorption and do not sustain mold ressive strength and high thermal resistance
Please refer to the attache	ed documentation.	
	/	
	(1 Approved	□ Denied
Agency action:	□ See addendum	⊕ See response below
Agency response: (5)		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 39 Proposer: New Flyer of RFP Section: BODY AN Page: 32		
	fication on the scope of th	ne vandal-resistant hardware requirement. Please with vandal resistant hardware.
Agency action:	☐ Approved ☐ See addendum	© Denied
Agency response:	Li See addenoun	☐ See response below

This form must be used for requested charifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 40 Proposer: New Flyer of America Inc. RFP Section: ROOF AND CEILING. Page: 32			
Questions/clarification			
New Flyer requests appro	oval to provide roof hatch	ies without external handles.	
Agency action:	☐ Approved	☐ Denied	
Agency action.	□ See addendum	☐ See response below	
Agency response:			
		·	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions. Clarifications and Omissions."

Request #: 41 Proposer: New Flyer of RFP Section: SUBFLOG Page: 33		
Questions/clarification or approved equal: New Flyer requests approval to provide a composite rear step and flooring to the rear wheelhouse and plywood flooring aft of the rear wheelhouse.		
Agency action:	© Approved □ See addendum	☐ Denied ☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 42		(A.) A suppose of the
Proposer: New Flyer of ,		
RFP Section; HVAC SY:	STEMS, Front door Thre	shold heater
Page: 35		
Questions/clarification		
inew riyer typically only p	Yoyides this opinion for a	ment for an entrance door heater. Though available, sustomers in extreme cold weather climate zones. The ating the front door area in Greenville's climate zone
Agency action:	○ Approved	tv Denied
Agency action.	☐ See addendum	□ See response below
Agency response:		The state of the s

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 43		
Proposer: New Flyer of		
RFP Section: ACCESSIBILITY (COMPARTMENTS, PANELS, DOORS),		
Page: 35		
Questions/clarification	or approved equal:	
promotes venting and cod	oling near the component	streetside access panel over the radiator. This design is in need of air flow. The curbside access panel is not engine receive adequate air flow without a vented
	/	
	☑ Approved	() Denied
Agency action:	☐ See addendum	LI See response below
Agency response:	**************************************	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 44		
Proposer: New Flyer of America Inc. RFP Section: ACCESSIBILITY (COMPARTMENTS, PANELS, DOORS).		
	BILITY (COMPARTMEN	TS, PANELS, DOORS),
Page: 36		
Questions/clarification		
new Flyer requests appr because it provides uning on the lower sidewall of	speded access to the batt	access door that opens to the side. This is beneficial ery compartment, since the commpartment is located
Agency action:	Ly Approved	☐ Denied
Agency action,	□ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 45		
Proposer: New Flyer of A	America Inc.	
RFP Section: ACCESSIE	BILITY (COMPARTMENT	'S, PANELS, DOORS),
Page: 36		
Questions/clarification of	or approved equal:	
New Flyer requests approval to provide a radio compartment on the inside of the bus that is water resistant but isn't completely waterproof. SDS box being located at height above floor, so cleaning would not affect the electrical equipments in the SDS box. The SDS box is made of fiberglass and painted black to minimize the glare and reflections that may impact the driver's sightline(s).		
Please review Attachment	t I for additional informati	on on the SDS enclosure
	/	
Agency action:	☑ Approved	☐ Denied
Agency action.	() See addendum	☐ See response below
Agency response:	A	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 46		N N N N N N N N N N N N N N N N N N N
Proposer: New Flyer of		
RFP Section: MODESTY PANELS, MODESTY PANELS		
Page: 36		
Questions/clarification		
low Flyer requests applead to the state of the low floor bus the wheel-flourbaide wheel well.	roval to delete the require tousing effectively blocks	ment for a modesty panel rear of the front door. On this area and passengers are seated rearward of the
Agency action:	€ Approved	() Denied
rigativy dottori.	☐ See addendum	○ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 47 Proposer: New Flyer RFP Section: MODES Page: 36	of America Inc. STY PANELS, MODESTY	PANELS
The communications be the operator and the si	(reet-side front passender)	e Diagnostic Station-SDS) acts as a barrier between seat which precludes the need for a separate barrier. It ze the glare and reflections that may impact the
Agency action:	N Approved ☐ See addendum	☐ Denied ☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 48 Proposer: New Flyer of RFP Section: Passenge Page: 38				
Questions/clarification or approved equal: New Flyer requests approval to provide, as an alternative, a logic that prevents the chime from sounding repeatedly due to passenger stop request activation. The chime sounds for activation and does not sound again until the doors cycle, preventing repeated chiming. We would like to clarify that this switch is not an available option.				
	,			
Agency action:	☑ Approved ☐ See addendum	☐ Denied ☐ See response below		
Agency response:				

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 49				
Proposer: New Flyer of				
RFP Section: INSTRU	MENT PANEL,			
Page: 38				
Questions/clarification or approved equal:				
New Flyer requests approval to provide the warning and fault indicators integrated with the instrument panel				
Review Attachment J - f	or additional information o	on the driver's controls		
		•		
Agency action:	√Approved	U Denied		
	☐ See addendum	CI See response below		
Agency response:	000000000000000000000000000000000000000			





SALES INFORMATION BUILLETIN

#350.001 | Modeli Xcelsion | Lengths: All | Propulsions: All

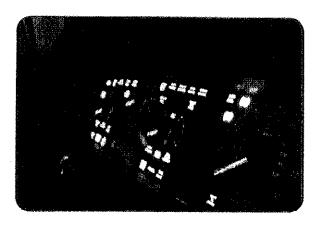
Driver's Controls

Instrument Panel

Xcessor comes standard with the industry's first electronic instrument punel. The electronic instrument panel is proprietary to New Flyer and was designed by Parker-Vansco. This automotive like cluster, figured in a more streamlined, contemporary dash, features integrated inputs, outputs, gauges, ECDs, fell tales and user buttons it has two CAN ports for built-in packet gateway functionality and bridges the devetrant J1939 to chassis 11939.

Additional features:

- USB device post
- lotal of 27 inputs
 - 3 Wake Ups Active High
 - 12 Digital Active Low
 - 6 Digital Active High
 - 5 Analogs (3 Position Switch Settings)
 - I frequency lopul
- Total of 3 outputs
 - 2 High Side Outputs 2 A max.
 - 1 Low rade Output 2.5 A max
- User-programmable routing table for passing or blocking of 11939 Messages
- User-programmable inputs, outputs, gauges, tell tries, and ECDs
- Uses a standard off-the-shelf USB A-R cable to communicate with a R°.
- Upleading, downloading and diagnostics are all done from one point on the vehicle
 - The instrument cluster serves is built in service tool
- · Advanced Diagnostics
 - Real time diagnostics
 - All documentation is stored in the VMMs.
 - Monitor all inputs and outputs from one location
 - Monitor analog voltage
 - "Force" imputs or outputs On or OH-
 - Upload logs and error codes

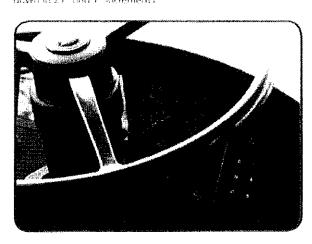


Steering Wheel

The steering wheel provided is a black hard plastic type with two spokes, 20 inches in diameter and with a center hub horn button.

Steering Column

The steering column is a 900 Series steering column manufactured by Donglas Autotech. A single-lever actuation system provides both filt and felioscoping action. The column filts up and down in 21° and 7° increments.







es neormation bulleyin **Xcelsior Electronic Instrument Cluster** Air Pressure Gauges · Iwo gadges in 40° bus · Third gauge positioned above Speedometer LCD screen in 60°hips (MPH in US KPH in CAN) **User Buttons** Odometer Tell Tales LCD Screen · Up to 31 standard tell . Up to four LCO screens. tales illiominate on dash · Factor CD screen displays Additional selected tell between 1 to 4 gauges. tales are programmed to · 2010 EFA regulation requires that an orea level dispray on LCD screen. gauge always be present and in the "1" position.

Examples of LCD Screen Configurations













Accelerator & Brake Pedals

Both the accelerator and brake pedals are mounted to the driver's platform in the driver's area at a 45° angle. The brake valve is an EG with a pressure transducer.

Dimmer & Turn Switch

The turn signals and dimmer switch have easy access for the driver both can be activated by floor mounted switches.

Overhead Recessed Panel

New Flyer has conveniently located a recessed panel on the upper left side of the driver to allow for various electronic features. to be easily accessible by the driver. The cables will be concealed behind the panel and routed down the "B" post to the Secure Diagnostic Box behind the driver where the majority of the electronic equipment will be housed. The panel is hidden from this passengers' view.



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Request #: 50 Proposer: New Flyer RFP Section: INSTRU Page: 38		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
New Flyer would like to	on or approved equal: o clarify that a test button is est procedure upon start u	s not available and not required because the primary p.
Agency action:	☐ Approved ☐ See addendum	☐ Denied © See response below
Agency response: RFF (eq.)	ces the rapt	sale. Fortest hittori

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 51	.	
Proposer: New Flyer o		AGE. BATTERY AND BATTERY STORAGE
Page: 40	TAND DALLERY STORY	NOE. BATTERY AND BATTERY STURAGE
Questions/clarification	or approved equal:	
tray constructed of polye	ethylene plastic mounted	duty 3/16" polyethylene plastic enclosure with a battery on a stainless steel sub-frame for support location at sout on stainless steel rollers.
•		
Agency action:	(v Approved	() Denied
Agency action.	□ See addendum	○ See response below
Agency response:	h	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 52 Proposer: New Flyer of RFP Section: BATTERY Page: 40	America Inc. ' AND BATTERY STORA	iGE.
Questions/clarification	· · ·	
through a flip out access	oval to provide the jump s door on the curbside of t	start plug at the fusebox. The plug is accessible he bus.
Agency action:		☐ Denied ☐ See response below
Agency response:		El Occ (csporac below
,,		

This form must be used for requested charifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 53			
Proposer: New Flyer of America Inc.			
RFP Section: CHARGING SYSTEM, CHARGING SYSTEM			
Page: 40			
Questions/clarification	or approved equal:	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
New Flyer requests approval to provide an air cooled EMP450 alternator rated at 450 amps 28 volts @2100rpm for the hybrid system installed with ISL engines. New Flyer uses the EMP450 alternator for our hybrid coaches installed with ISL engines because of the additional current draw required for the hybrid battery cooling fans installed on the roof of the coach. Also an electronic voltage regulator is mounted inside the fuse box.			
		!	
	,		
	N/ Approved	. Denied	
Agency action:	See addendum		
	i i dec audendum	☐ See response below	
Agency response:			

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 54		
Proposer: New Flyer of	America Inc	
RFP Section: LIGHTING	3, Exterior Lighting	
Page: 42		
Questions/clarification	or approved equal:	
step well lamps. New Fly	ger meets the ADA exterion trip. New Flyer can provid	rement for exterior surface mount rectangular LED or lighting requirements on our Xcelsior bus with our de a report to confirm compilance to the ADA
		,
	() Approved	
Agency action:	* *	N/Denied
	□ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Proposer: New Flyer of America Inc. RFP Section: PUBLIC ANNOUNCEMENT SYSTEM, PUBLIC ANNOUNCEMENT SYSTEM	
Page: 44	
Questions/clarification or approved equal:	·
New Flyer requests approval to provide a balanced announcement system for the 35 ft bus which have 6 (six) speakers interior passenger compartment.	will
Agency action: ☐ See addendum ☐ See response below	
Agency response:	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 56 Proposer: New Flyer of RFP Section: FARE CC Page: 44		
Questions/clarification		
New Flyer requests app	roval to provide a 1 X 6 m	anual, dash-mounted passenger counter.

Agency action:	G Approved ⊜ See addendum	17 Denied
A); See augenoum	() See response below
Agency response:		
	According to the second	

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 57 Proposer: New Flyer of RFP Section: Warrantie Page: 46	America Inc. es, EXCEPTIONS TO WA	NRANTY
Questions/clarification or approved equal: New Flyer requests approval to provide that the warranty shall not apply to scheduled maintenance items, acts of nature, or normal consumables such as tires, belts, bulbs/tubes or items with progressive wear characteristics (bushings, wiper blades, friction surfaces). Please refer to the attached consumables excluded document Attachment H.		
Agency action:	☐ Approved ☐ See addendum	☐ Denied ☐ See response below
Agency response:		



GENERAL WARRANTY STATEMENT FOR CONSUMABLE ITEMS

The warranty shall not apply to scheduled maintenance items, normal consumables, or items with progressive wear characteristics (bushings, friction surfaces). Nor shall it apply to items furnished by the Procuring Agency such as radios, fare boxes and other auxiliary equipment, except insofar as such equipment may be damaged by the failure of a part or component for which the Contractor is responsible. The following Items are considered CONSUMABLE Items and are **NOT** covered under the Base Warranty of the Bus:

- Windshield Wiper blades
- Filters, This includes, but not limited to
- engine oil filter,
- hydraulic oil filter,
- engine air intake filter,
- HVAC filters,
- and fresh air intake
- Belts
- Bushings (unless otherwise noted on suppliers document)
- Hardware, this includes all non-reusable, but not limited to
- nuts,
- bolts,
- screws,
- Washer's lock and star washers
- Lubricants, this includes, but not limited to
- all oils in engine,
- transmission.
- and axles
- · All Brake friction material including, but not limited to
- Brake Linings



2016

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 58		· · · · · · · · · · · · · · · · · · ·	
Proposer: New Flyer of America Inc.			
RFP Section: Warranties, DETECTION OF DEFECTS			
Page: 46			
reimbursement from Ne	he City of Greenville can w Flyer, however, New Fl	perfrom the majority of warranty repairs with lyer would like to clarify that. The following major	
or The City of Greenvill permission of the origina will be available to work	be performed by an authe). If The City of Greenvial equipment manufacture with The City of Greenvial and work is conducted.	ission, HVAC and destination sign suppliers) mandate orized dealer of their components (and not New Flyer lite elects to perform these repairs, without the writtener, the warranty coverage may be voided. New Flyer lite on major equipment repairs to ensure service ed in an acceptable timeframe.	
Agency action:		① Denied	
	☐ See addendum	☐ See response below	
Agency response:			

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 59 Proposer: New Flyer of America Inc. RFP Section: Warranties, FLEET DEFECTS Page: 46 Questions/clarification or approved equal: New Flyer requests approval that The City of Greenville review the proportion of buses in fault for a defect definition. Twenty five percent (25%) on a minimum of three (3) buses would allow The City Greenville to declare a fleet defect if one (1) vehicle is in default. To be fair and reasonable, as determined in the Standard Bus Procurement Guidelines (SBPG), New Flyer suggests twenty-five percent (25%) on a minimum purchase of ten (10) buses in a single order.
RFP Section: Warranties, FLEET DEFECTS Page: 46 Questions/clarification or approved equal: New Flyer requests approval that The City of Greenville review the proportion of buses in fault for a defect definition. Twenty five percent (25%) on a minimum of three (3) buses would allow The City Greenville to declare a fleet defect if one (1) vehicle is in default. To be fair and reasonable, as determined in the Standard Bus Procurement Guidelines (SBPG), New Flyer suggests twenty-five
Page: 46 Questions/clarification or approved equal: New Flyer requests approval that The City of Greenville review the proportion of buses in fault for a defect definition. Twenty five percent (25%) on a minimum of three (3) buses would allow The City Greenville to declare a fleet defect if one (1) vehicle is in default. To be fair and reasonable, as determined in the Standard Bus Procurement Guidelines (SBPG), New Flyer suggests twenty-five
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New Flyer requests approval that The City of Greenville review the proportion of buses in fault for a defect definition. Twenty five percent (25%) on a minimum of three (3) buses would allow The City Greenville to declare a fleet defect if one (1) vehicle is in default. To be fair and reasonable, as determined in the Standard Bus Procurement Guidelines (SBPG), New Flyer suggests twenty-five
Agrandu action: Approved (*Denied
Agency action: ☐ See addendum ☐ See response below
Agency response: 5 0 2 6
Section WRIGHERESTS states "In a minimum offer
Size of twelve (12) or more books.
This of Eggs at is demand, another subject Greenville on
Materialis as with expedence income prochase et Entite

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Duc Date, as specified in "Questions, Clarifications and Omissions."

Request #: 60		A STATE OF THE STA
Proposer: New Flyer of America Inc.		
RFP Section: BATTERY AND BATTERY STORAGE, A stainless steel battery tray located in the front		
roadside of the bus und	er the driver's compartme	ent shall be provided.
Page: 40		
Questions/clarification	or approved equal:	
New Flyer provides a po is also polyethylene. Thi robust.	lyethylene battery tray su s design is corrosion resi	ipported by a stainless steel sub-frame, the enclosure stant, light weight and has proven to be extremely
Please note that the batt the correct support for 2	teries are supported by st 8d batteries or 4 GP 31 b	tructural stainless steet U-channels. Sized to provide patteries.
Please Review Attachme battery tray.	ent K - Battery System SI	B 260-001-X which provides further information the
i		
Agency action:	☑ Approved	☐ Denied
Agency action.	□ See addendum	□ See response below
Agency response:		

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sized to supply the entire	NG SYSTEM, A Niehoff C a nighttime operating elec	C803 or approved equal Afternator shall be provided strical load of the bus while providing at least twenty ing when the battery is fully disch
Questions/clarification New Flyer provides a 45		ternator. Please see drawing 633371 for further
information on the provid	led alternator.	, , , , , , , , , , , , , , , , , , ,
	() Approved	① Denied
Agency action:	☐ See addendum	☐ See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 62		4 () shift and a shift a shif
Proposer: New Flyer o	of America Inc.	
RFP Section: ELECTE	RICAL COMPONENTS, T	he pull cords shall be accessible from the exit door
area.		
There shall be a lighted	l display sign which indica	ites "STOP REQUESTED" when the signal is activated
Page: 41		The state of the s
Questions/clarificatio	n or approved equal:	
		nitiate a stop request. See drawing 603903 for further
	•	
	. 2	
Agency action:	M Approved	□ Denied
	□ See addendum	☐ See response below
Agency response:		

This form must be used for requested charifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 63 Proposer: New Flyer of RFP Section: ELECTR and 55 Db. Page: 41		re volume on the chime shall be adjustable between 90
	n or approved equal:	
Questions/clarification or approved equal: New Flyer provides a non adjustable chime that outputs 83 DBA when measured at a distance of 18". Please see drawing 438920 for further information on the provided chime. The chime is mounted behind the driver on the forward side of the SDS enclosure. Please see installation 438955 which clarifies the mounting location.		
Agency action:	ਰੰ Approved	□ Denied
mychoy uctions	☐ See addendum	El See response below
Agency response:		

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omíssions."

Agency action: Agency response:	☐ See addendum	☐ See response below
Agency action:	, ,	☐ See response below
***************************************	☑ Approved	○ Denied
Page: 41 Questions/clarification New Flyer provides a Vansco modules modules The Vansco Multiplex The outputs on our syreduces the number of The Vanso Multiplexii	on or approved equal: Vansco Multiplexing system are auto-programming making system uses a single ystem can drive loads up to fuses or breakers require ng module has an IP rating ng module has a operating IL - SIB 284+286-X-001 for	
multiplexing system is	he primary purpose of the	Ill be equipped with a Dinex or approved equal





SALES INFORMATION BULLETIN

#286+280-001 | Model: Xcelsio(| Langths: All | Propulations: All

Multiplexing System

New Flyer uses superior multiplicating power provided by Parker Vansco.

- Vansco has more than 25 years of experience in developing state-of-the-air electronic control systems and components, it was accounted by Parker Hamiltonin 2008.
- Parker Hannehi Corporation (NYSE-PH) is the svorid's leading diversified manufacturer of motion control technologies and systems, with annual sales exceeding \$12 billion.

Product Features

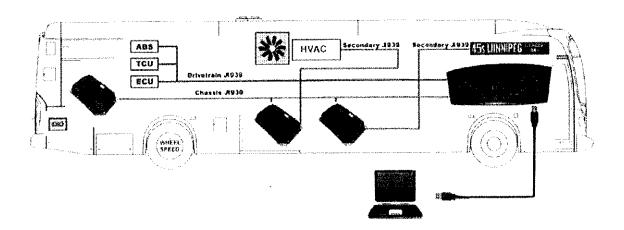
- Industry standard communications protocol and ladder logic software
- Single style auto-programming module controls all functions and reduces inventory (35' and 40' buses have six modules, a 60' bus has seven
- Easy-to use diagnostics software runs directly on your laptop in Windows, free lifetime upgrades
- In service on more than 10,000 New flyer buses in North America.

Multiplexing Module (VMM) System, also called Programmable Logic Controller (PLC), is utilized to

- · reduce withing companity
- · minimize wirling costs
- · simplify troublesbooting
- · provide unparalleled reliability

Benefits

- Multiplexing system uses industry standard CAN J1939 communications protocol
- · Certified to J1455 environmental standard rating
 - Rugged Parker Vansco module meets or exceeds all test requirements for temperature, electrical transients, EMC, pressure wash, and immersion.
 - All solid state construction (no internal fuses) to ensure reliable, fow maintenance system.
- Industry standard ladder logic software
 - tadder logic view for input and output reliabliships, real time diagnostics
 - I/O view defines all inputs, outputs
- User friendly software runs in Windows (32 bit operating systems)





NEW FLYER



Easy-to use diagnostics

- Ladder logic and documentation can be uploaded directly to an internet enabled PC, system supports remote diagnostics across a LAN or the Internet
- Multiplexing module can be configured to log a cycle count or a cumulative duration count for any input, output, or communication signal without adding companents to the system
- Freu lifetime software license and upgrades
- Basic diagnostics achieved through LLDs on module with Input/Output LEDs, Net LEDs, Flower LED, Address LEDs

· One style module to control all systems

- Reduces required inventory
- All modules work independently, in the event of a failed. modute, others will still operate

· Auto programming (Plug & Play) feature

Upon connection to a VMM system, the Parker Vanyon Multiplexing Module auto-programs itself from the other modules. No programming tools, special exchange software or PC connections are required to exchange a module, it is "Plura and Play."

· The multi-master system

Allows multiplexing modules within a system to store and execute a common ladder logic program, the malternaster system architecture facilitates distribution of critical functions and minimizes the number of different modules within a system

· Internal gateway control

Ability to force gateway on or off through the software.

· Designed with familiar concepts to reduce training

- Same ladder togic
- Same LED diagnostics
- Features, such auto-programming and the multi-master system, reduce maintenance cost

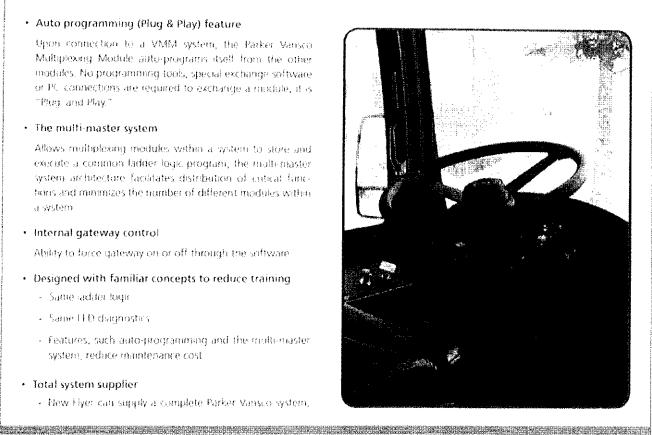
· Total system supplier

Plew Flyer can supply a complete Parker Vansco system,

- composing reultiplexing modules and an instrument cluster (gauges, tell tales, and harnesses), or customers can select components that work with third party equipment
- Custom electronic components (New Hyer, working with Parker Vansco, can design and manufacture custom Components)

Superb service/warranty

- Parker Vansco has been installed on more than 10,000. New Flyer buses in North America
- New Flyer's Service Organization coordinates warranty clasms through (Warrang)
- New Flyer maintains extensive service networks and comprehensive in-house engineering resources
- Three year/150,000 miles parts and labor warranty







SALES INFORMATION BULLETIN

	Parker Vansco Module	The same of the S.A. As present for the print water commence assumptions with the same of	Parker Vansco Module
CORE Micro Processor	Power PC	VISUAL DIAGNOSTICS Power LED	
flash	1 Mbyte up to 2 Mbyte	Network LED	
RAM	64 Kbyte up to 512 Kbyte	Fault LED	
Eeprom	32 Kbyte	Input LED	21
Bus Speed (Clock)	80 Mhz	Output LED	(15
COMMUNICATION CHANNELS	•	SYSTEM ARCHITECTURE	
CAN Buses		Master - Master	Yes
Wake on CAN	CAN Bus 1	Single Part Solution	Yes
COMMUNICATION PROTOCOL		Mix and Match Controllers	Yes
SAE /1939	Yes (2)	SOFTWARE	
CAN	Yes (2)	Saftware License Cost	No.
Gateway Functionality	Yes	Programming Modules	Program with PC for the
Router Functionality	No		first time, then if a unit is replaced, they Plug and Play each other.
RV-C Capable	No	Power Shedding	Yes
GMLAN	No.	OTHER	
J1708	No	Module Addressing	5 dedicated inputs for addressing
R5292	No	Power Control	1 (AH)
Built in DLA capability	No.	Total Continuous Current per Controller	80 Amps
Diagnotic Messages (DM)	Yes	Total User	16
CAN Messages (User	Yes	Configurable Inputs	
Definable)		Total User Configurable Outputs	215 1 2 3 1 1 2 1 2 3 1 4 5 1



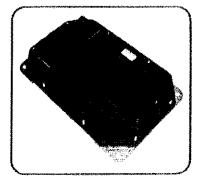
NEW FLYER



SALES INFORMATION BULLSTIK

Parker Vansco VMM1615

- Total of 16 inputs
- Six switch (digital) inputs
 - One reput with power control switched to high
 - Six programmable input switch high or low
- Eight analog / digital inputs
- · One OC frequency input
- · Total of 15 outputs
 - 6 outputs, 10 A max
 - 4 outputs, 5 A max
- 3 outputs, 2 x 2.5 A high side, 1 x 2.5A low side
 - 2 solid state outputs, 1 A max
 - Total Current 80 A max
 - 2 V at 24 V operation
 - Split power bus
 - SV/8V Regulated Sensor Supply
- PWM outputs 1- 100%, 100 Hz
- Solid state switching and circuit protection.
- Accurate current sense on selected outputs
- Internal power protection and conditioning
- 7 CAN ports, 1 with wake on CAN, both 11939 communications protocol
- · Built-in pocket gateway functionality



Parker Vansco Xcelsior Instrument Cluster

- Contemporary dash design with the industry's first standard electronic automotive-style instrument panel.
- Integrated inputs, outputs, gauges, t.c.bs, tell tales, and user buttons in one drop-in package
- 2 CAN ports for built in pocket gateway functionality
- Bridges drivetram #1939 to chassis #1939
- USB device port, uses a standard cable to communicate with a PQ
- lotal of 27 inputs
 - 3 Wake Ups Active High
 - 12 Oightal Active Low
 - 6 Digital Active High
 - 5 Analogs (3 Position Switch Settings)
 - 1 Frequency Input
- · letal of 3 outputs
 - 2 High Side Outputs 2 A max,
 - I flow 5ide Output 2.5 A max
- User programmable rouning table for pass ing or blocking of (1939 Messages)
- User programmable inputs, outputs, gauges, tell tales, and LCDs
- Uses a standard off the shelf USB A-B cable to communicate with a PC
- Uploading, downloading and diagnostics are all done from two points on the vehicle (front & rear)
 - The distrument cluster serves as built at service tool.
- · Advanced Diagnostics

- Real time darquostics
- All documentation is stored in the VMMs
- Monitor all inputs and outputs from one location
- Monitor analog voltage
- Force' inputs or outputs On or OFF
- Upload logs and error codes

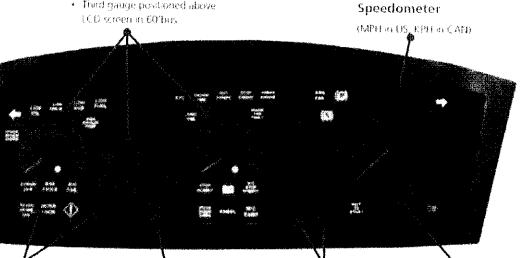




Xcelsior Electronic Instrument Cluster

Air Pressure Gauges

- · Two gauges in 40 bus
- Third gauge positioned above



Tell Tales

- Up to 31 standard tell tales illuminate on dash
- Additional selected tell tales are programmed to display on LCD screen

. Up to four LCD screens.

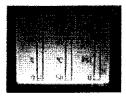
LCD Screen

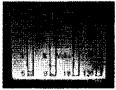
- · Each LCD screen displays between 1 to 4 gauges.
- 2010 FFA regulation reguires that an orgalieves gaude always be present and in the "1" position.

Examples of LCD Screen Configurations









User Buttons



Odometer

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions,"

Request #: 65 Proposer: New Flyer of America Inc. RFP Section: LIGHTING, The passenger interior lighting system shall be an I/O Controls or approved equal LED lighting system. Page: 41		
Questions/clarificatio		
New Flyer provide TCB SIB-277-001-X-LED fo	interior lighting and adver r further information on the	tising panels, Please see Attachment M - e provided interior lighting.
		:
Agency action:	N Approved	☐ Denied
	□ See addendum	□ See response below
Agency response:		
		1

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 66		
Proposer: New Flyer of America Inc.		
RFP Section: LIGHTING, LED high and halogen low beam headlights are required and shall be		
controlled from a sealed.	•	
switch located on the floo	r in the driver's station.	
Page: 42	ery cycle ye common consistent at the EA Chinam M & mander consistent and an arrangement of the consistent and an arrangement of the consistent and arrangement of the consistency and arrangement of the consistency arrangement of the consistency and arrangement of the consistency are arrangement of the consistency and arrangement of the consistency are arrangement of the consistency and arrangement of the consistency are arrangement of the consistency are arrangement of the consistency are arrangement of the consistency and arrangement of the consistency are a	
Questions/clarification	• • •	
The JW Speaker 12V hea see Attachment N - SIB 2	adlights are halogen for t 73-001-X-LED-Headlight	he high beams and LED for the low beams. Please is for further information on the headlights.
	,	
Agency action:	⊡√Approved	☐ Denied
Agency action.	□ See addendum	□ See response below
Agency response:		
<u> </u>		





LED Headlights

Product Features

New Fiver is the first North American OFM to offer LED Headlights to the Transit Industry. This new headlight assembly introduces EED low beam and an integrated turn signal. The high beam is still offered in an arcandescent configuration to reduce cost of the assembly.



Benefits

- · Maintenance cost savings is estimated at \$2,860 over 12 years per hus which is more than a 50% reduction versus conventional incandescent lights. On a fleet size of 100 bases, this could represent a maintenance cost savinus of \$286,000 over 12 years.
- · The brightness of the bulbs will not disturb the vision of opposing traffic
- · Improved front mask styling with an automotive look

Service/Repair

The high-beam builts are the only serviceable components. New fiver estimates minimal replacements of high-beam bulbs due to the duty cycle of a transit bus and the low usage of the high-beams in revenue service.

Warranty

Headlight assembles are warranted for six years; however, these lights have been designed to last 12 years.

Testing

Headlights are contribed compliant to FMVSS-168

ENVIRONMENTAL CHARACTERISTICS

Test standard:	SAE JZ139
Sealing standard:	IP 66
Gasket:	Poron with PSA on one side

CONSTRUCTION CHARACTERISTICS

Lens Material:	Hant-coated polycarbonate
Base Material:	Polycarbonate
Reflector	High-temperature Polycarbonate

COMPUANCE CHARACTERISTICS

FMVSS/CMVSS 108:	High & Low Beam for DOT
SAE J 2261:	Turn signal
Rellector:	High-temperature Polycarbonate

ELECTRICAL C	HARACTERISTICS
Nominal Voltage:	12 Vdc
Operating Voltage:	9-18 Vdc
Max current draw (LED) Low beam:	6.1A at 12 Vdc
Max current draw High Beans	4.5A at 12 Vdc
Connection:	integral connector
Light source: High Beam Low Beam Turn signal	Halogen Model #H-11 LED light engine Discreet LED
Mating Connector: High beam buib Low beam/turn signal	Packard connector 8 pin Deutsch DT06- 08SA
Translant Protection:	150 v for 10 pulses - 40 ms long pulses, 1 sec between pulses
Electrical Interference:	ECE regulation 10

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		* 17. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16	
Request #: 67			
Proposer: New Flyer of America Inc.			
RFP Section: LIGHTING, All clearance and I.D. lights shall be flush mount LED type.			
Page: 42			
Questions/clarification	· ·		
566866 and 052949.	ance lights which aren't i	lush mounted. For further information see drawings	
Agency action:	t⊮ Approved	⊜ Denied	
Agency action.	∐ See addendum	☐ See response below	
Agency response:			

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Request #: 68			
Proposer: New Flyer of America Inc.			
RFP Section: LIGHTING, All electrical connections to the LED light shall be by wire			
coming from the light housing and terminated with a Packard Weather Pak connector.			
Page: 42			
Questions/clarification	or approved equal:		
New Flyer provides exter connectors. Please see b	ior lighting connections the elow for connector inform	hat are terminated with Deutsch or Packard mation;	
Headlights			
HIGH BEAM BULB - PAC	CKARD CONNECTOR #	12124817	
LOW BEAM/TURN SIGN	AL - 8 PIN DEUTSCH D	T06-08\$B	
Taillights:			
Packard connectors #120	115792 or #12015793		
Rear Center Stop Light:			
Deutsch #DTMN06			
Kneeling Light:			
Packard #12015792			
Marker Lights			
Packard #12015792			
Liscence Plate Light			
Packard #12015792	.1		
Agency action:		Lt Denied	
Agency action.	□ See addendum	TI See response below	
Agency response:			
			

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Request #: 69				
Proposer: New Flyer o	of America Inc.			
RFP Section: LIGHTING. The brake lights shall be fabricated with the use of a current regulator circuit to the LED's that allows for operation of the device from an internal active regulator circuit that assures				
Page: 42				
Questions/clarification	n or approved equal:			
system can drive loads	up to 10 amps and are ele	ugh a Vansco multiplexing output. The outputs on our ectronically self protected. In the event of an issue with and audible alarm will trigger.		
	ট্র Approved	☐ Denied		
Agency action:	□ See addendum	☐ See response below		
Agency response:				

This form must be used for requested clarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 70		The second secon		
Proposer: New Flyer of				
RFP Section: LIGHTING, The bus shall be equipped with surface mount rectangular LED step well				
lamps mounted in acco	ordance with the ADA			
requirements. Page: 43				

Questions/clarificatio				
New Flyer provides two round lights on the steps to the upper deck. Please see drawings 462801 and 266142 for further information.				
	ect. A.			
Agency action:	(V) Approved	fil Denied		
	□ See addendum	□ See response below		
Agency response:				

This form must be used for requested elarifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 71 Proposer: New Flyer of America Inc RFP Section: LIGHTING, The light shall be dual 12 and 24 volt. Page: 43 Questions/clarification or approved equal:				
· · · · · · · · · · · · · · · · · · ·				
Agency action:		□ Denied		
	☐ See addendum	C: See response below		
Agency response:	·			

This form must be used for requested charifications, changes, substitutes or approval of items equal to items specified with a brand name and must be submitted as far in advance of the Due Date, as specified in "Questions, Clarifications and Omissions."

Request #: 72 Proposer: New Flyer of America Inc. RFP Section: LIGHTING, The engine compartment shall utilize 3 12" white led strip lights that produce 300 lumens of light. Page: 43					
Questions/clarification or approved equal:					
New Flyer provides 4 LED lights in the engine compartment that output 409 lumens. The lights aren't strip lights. Please see drawings 616648 and 594639 for further information.					
Agency action:	⊠ Approved	□ Denied			
	□ See addendum	□ See response below			
Agency response:					