### GREATER PORTLAND TRANSIT DISTRICT Large-Sized Low Floor Transit Buses RFP # 2022-002

#### **ADDENDUM #3**

#### **DATE:** March 7, 2022

The attention of firms submitting proposals for the work named in the above Invitation is called to the following modifications to the documents as were issued.

The items set forth herein, whether of clarification, omission, addition and/or substitution, shall be included and form a part of the bidder's submitted material and the corresponding contract and/or purchase order when executed. No claim for additional compensation, due to lack of knowledge of the contents of this Addendum will be considered.

\*\*\*\*\*

ALL PROPOSERS ARE ADVISED THAT RECEIPT OF THIS NOTICE MUST BE DULY ACKNOWLEDGED, <u>EITHER</u> ON THE PROPOSAL FORM <u>OR BY</u> THE INSERTION OF THIS SHEET, SIGNED, AND SUBMITTED WITH YOUR PROPOSAL.

*****
Addendum No. 3 to the GPTD RFP #2022-002: Large-Sized Low Floor Transit Buses, is hereby acknowledged.
COMPANY NAME:
SIGNED BY:
PRINT NAME &

METRO responses to proposer questions for RFP 2022-002 "Large-Sized Low Floor Transit Buses"

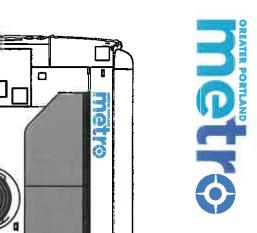
Is it possible to bid for imported buses or only American made buses can be supplied?

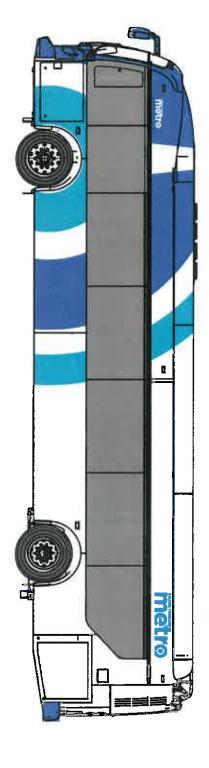
Any bus manufacturer that meets the FTA "Buy America" requirements as stated in the RFP may submit a proposal for this procurement.

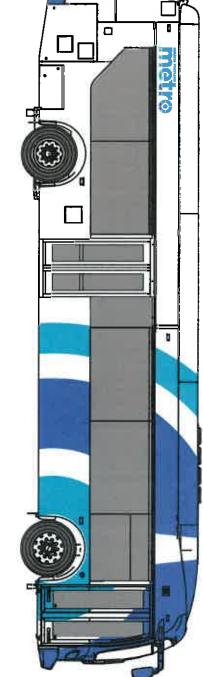
Please see attached for responses to Approved Equals Requests.

New Flyer of America		_	
Proposer/Vehicle Manufacturer			
RFP Part IV Section Number	13 5	Section Title _	EXTERIOR PANELS AND FINISHES
Describe Request. Include appropriate sup AE Number 49 PDF Page Numb Specification Language Colors will match DUPONT transit-grade w (#B8424 HN), with blue (PMS 3135) 8" strip Electronic pictures of our existing fleet can forwarded to prospective bidders upon reconstructions.	porting dependence 79 hite pe.	Request for A New Flyer rec shall be applic standard Qua Standards.  New Flyer add Coatings are This is inhered	as outlined in the RFP: nent Yes  Approval quests approval to provide paint that ed in accordance with New Flyer's dity Assurance Paint Appearance vises that DuPont Performance now Axalta Coating Systems. Int to the bus design and was your previous builds.  tached the New Flyer Exterior Paint
GPTD Response:  Approved Denied Comments:  Metro Paint Scheme a Hached.	Noted )		nged, See 3/3/22
Signature of GPTD Official	_		Date

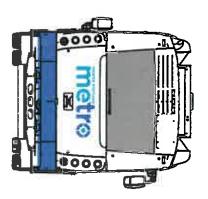
	New	Flyer of America			
Proposer/Ve	ehicle M	lanufacturer			
RFP Part _	IV	Section Number _	13	Section Title	EXTERIOR PANELS AND FINISHES
					as outlined in the RFP:
AE Number	50	PDF Page Nun	nber	80 Attachm	nent No
Specification EXTERIOR LI	-	_		Request for A	
Commercial	ly availa	, ble LED (Light Emittir <mark>hall</mark> be used whereve			uests approval to provide a full LED embly manufactured by JW Speaker.
	ıcklight	LED lights meet these			uests approval to provide Dialight exterior lights.
		_			
GPTD Respon	se:	-		*	
Approved	X	Denied $\square$	Noted		
Comments:					
	(2)	)			0 00 100
Signature of	CDTD C	CC: _: _1			3/22
DIRECTOR OF I	(111145)	meal			Data















New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part    Section Number B	.07 Section Title INDEMNIFICATION
Describe Request Include appropriate connection	nating decomposition or qualized in the DED.
AE Number 2 PDF Page Number	_
Specification Language	Request for Approval  New Flyer requests approval to revise the following language to clarify indemnity provision limiting damages to proven third party damages and the parameters which New Flyer is willing to accept, in which bold text is added language and struck text is omitted: against any and all proven third party liabilities, damages, claims, demands, liens, encumbrances, judgments, awards, losses, costs and expenses and suits or actions or proceedings, reasonable expenses, costs and reasonable attorneys' fees incurred by the Agency and its officers, employees and agents, including consultants, in any successful action against the Contractor under the Contract, in the defense, settlement or satisfaction thereofnegligent acts, errors or omissions of its officers, employees, servants, agents, Subcontractors and Suppliers.  The obligations are caused solely by the or consultants for which the GPTD will be liable on a proportionate basis to their negligent acts, errors, or omissions.
GPTD Response:	
Approved □ Denied K No	oted
Comments:	
Signature of GPTD Official	3/7/22 Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part II Section Number B.05	Section Title DATA RIGHTS
Describe Request. Include appropriate supporti	ing documentation as outlined in the PED:
AE Number 1 PDF Page Number	17 Attachment No
	 8
Specification Language  GPTD Response:	Request for Approval  New Flyer requests approval to revise the following language to clarify limitations on the Agency's license to use proprietary data of New Flyer, and on its ability to reverse engineer patented parts and software, in which bold text is added language and struck text is omitted: License requirements  All subject data shall remain the property of the Contractor. Subject to applicable Maine law, GPTD shall protectThe Contractor shall grant a non-exclusive, royalty-free, non-transferable, and irrevocable license to allow GPTD to utilize such information solely in-order to operatereverse engineer patented parts and software for the purpose of maintaining and operating the vehicles.  The Contractor shall grant a royalty-free, non-exclusive, non-transferable, and irrevocable license to allow GPTD to reproduce and, publish or otherwise use, and to authorize others to use, the following subject data solely for its purposes the purpose of maintaining and operating the vehicles
. 1	F
Approved ☐ Denied ☐ Note	d L
Comments:	
60	3/7/22
Signature of GPTD Official	Date

	New	/ Flyer of America		_	
Proposer/V	ehicle N	Manufacturer			
RFP Part _	11	Section Number	B.08	Section Title	SUSPENSION OF WORK
Describe Rec	•	nclude appropriate su B PDF Page Nur		documentation as	
Specification	n Lang	uage		following langua element, in which and struck text in GPTDF may at a	ests approval to revise the age to add reasonableness ch bold text is added language
GPTD Respo		Denied □	Noted		
Comments:					
Signature o	G GPTD	Official			3/7/22 Date

	New F	lyer of America			
Proposer/V	ehicle Ma	nufacturer			
RFP Part	II	Section Numbe	r B.09-1	Section Title	EXCUSEABLE DELAYS/FORCE MAJEURE
Describe Rec	uest. Inc	lude appropriate	supporting	g documentation	as outlined in the RFP:
AE Number		PDF Page N		19 Attachm	
Specificatio	n Langua	ge	New Flyer I clarify para for COVID-	meters of Force I	I to revise the following language to Majeure provision, including delay ted causes, in which bold text is text is omitted:
			pandemic of work and/or reasonable	or epidemic; then or the delivery dat period of time af	go; or loss of transportation; or the time for completion of the tes shall be extended by GPTD by a fter such event of delay has ended may complete the work or deliver
			perform an period in w impact of t that the Co issues. The faith and co	ny of its obligation which the Contracthe COVID-19 pan ontractor prompt Contractor and Commercially reas	or shall not be liable for failure to ns under the Contractor during any stor cannot perform due to the idemic on its operations, provided ly notifies GPTD in writing of such GPTD shall work together in a good onable manner in an attempt to ions if necessary.
GPTD Respor	nse:				· ·
Approved		Denied 💢	Noted		
Comments: Pandem ave inc	de, ep	idemic a 1, provi	and l	loss of all other	transportation delays criteria in Section
ave m	let.				
(	(GF)				3/7/22
Signature of	GPTD Of	ficial			Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer		_	
RFP Part	II IV	Section Number	C.13 4	Section Title	INTERCHANGEABILITY
Describe Rec	quest. Ir	clude appropriate su	upporting	documentation as	outlined in the RFP:
AE Number	1	2 PDF Page Nur	mber	0 Attachmer	nt <u>No</u>
Contract, wor Supplier, shall be dup and installe Buses and comportant comportant comportant for the follocations in during the follocations in the following the follocations in the following the follocations in the following th	ed comp hether p or man olicates i d to assi ompone angeabi nents ar the Bus irst year	onents delivered und provided by a Subcon ufactured by the Con in design and manufa- ure interchangeability ents in each separate elity shall extend to the nd parts as well as to the es for all Buses produ- r of the Contract.	itractor itractor, icture, y among order. ne Buses their	manufactured we be duplicates in request for propadditional coach guaranteed between the engine manu components in components in components.	ests approval to provide buses within a given production run to design. However, since this posal includes options for mes, interchangeability cannot be ween option orders. For example, ufacturer might change emission order to meet regulatory at might change.
GPTD Respoi		=	_	_	
Approved	M	Denied 🗆	Noted		
Comments:					
	G				313122
Signature of	GPTD (	Official			Date

	Nev	Flyer of America			
Proposer/V	ehicle M	Manufacturer			
RFP Part _	II	Section Number	C.04	Section Title _	ASSUMPTION OF RISK OF LOSS
<b>Describe Req</b> AE Number	•	nclude appropriate su 1 PDF Page Nun		documentation 27 Attachm	as outlined in the RFP:
Specificatio	n Lang	uage		following lang risk occures up "acceptance" of bus provision language and loss of each	pproval uests approval to revise the guage to clarify that the transfer or pon delivery (removed and to avoid confusion with acceptance ons), in which bold text is added struck text is omitted:  Bus upon acceptance of delivery. Ery and acceptance the Contractor
GPTD Respon	4/	Denied □	Noted	٥	
Comments:					
Signature o	f GPTD	Official			3/7/22 Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part    Section Number C.0	Section TitleAVAILABILITY OF FUNDS
Describe Request. Include appropriate support	ting documentation as outlined in the RFP:
AE Number 9 PDF Page Number	26 Attachment No
Specification Language	Request for Approval New Flyer requests approval to revise the following language to clarify payments owed to New Flyer in the event of termination due to lack of funding, in which bold text is added language and struck text is omitted:
	The period of performance shall be three (3) years. GPTD's obligations under this Contract are contingent upon the availability of Federal, State, and/or local funds. GPTD reserves the right to withdraw its award of this Contract to the Contractor in the event that GPTD is unable to secure Federal, State, and/or local funding for the BASE order. In the unlikely event that any of GPTD's Federal, State, and/or local funding for the BASE order is withdrawn, reduced, or limited in any manner prior to GPTD's placement of said purchase order, GPTD reserves the right to withdraw its award of this Contract to the Contractor. Funding for the OPTIONAL order is subject to the future securement of federal and local funding. For certainty, in the event of lack of funding after award, the Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination.
GPTD Response:	
Approved □ Denied 🛱 Note	ed 🗆
No guarantee of paym been secured at whi Purchase order guar	nent until funding has ich time Metto Will issue anteeing payment.
Signature of GPTD Official	Date

Describe Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number 10 PDF Page Number 0 Attachment No  Specification Language  The Contractor shall provide a vehicle orientation with each vehicle delivered to GPTD. If GPTD orders more than one vehicle of identical specifications, the orientation shall be provided on the first vehicle delivered. The orientation shall be conducted by the Contractor for GPTD's maintenance operations supervisory and training personnel.  All costs that are incidental to the initial training shall be included in the cost of the coach.  PTD Response:  Approved Denied Noted D		New	Flyer of America			
C.18	Proposer/V	ehicle M	lanufacturer			
Per Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number 10 PDF Page Number 0 Attachment No  Specification Language The Contractor shall provide a vehicle orientation with each vehicle delivered to GPTD. If GPTD orders more than one vehicle of identical specifications, the orientation shall be provided on the first vehicle delivered. The orientation shall be conducted by the Contractor for GPTD's maintenance operations supervisory and training personnel.  All costs that are incidental to the initial training shall be included in the cost of the coach.  PTD Response:  Approved Denied Noted  Comments:	RFP Part	==	Section Number		Section Title	
AE Number	-	- 11		C.16		TRAINING
AE Number	Describe Rec	uest. In	iclude appropriate si	upporting	documentation as	outlined in the RFP:
The Contractor shall provide a vehicle orientation with each vehicle delivered to GPTD. If GPTD orders more than one vehicle of identical specifications, the orientation shall be provided on the first vehicle delivered. The orientation shall be conducted by the Contractor for GPTD's maintenance operations supervisory and training personnel.  All costs that are incidental to the initial training shall be included in the cost of the coach.  PTD Response:  Approved Denied Noted Comments:	AE Number	-				
The Contractor shall provide a vehicle orientation with each vehicle delivered to GPTD. If GPTD orders more than one vehicle of identical specifications, the orientation shall be provided on the first vehicle delivered. The orientation shall be conducted by the Contractor for GPTD's maintenance operations supervisory and training personnel.  All costs that are incidental to the initial training shall be included in the cost of the coach.  PTD Response:  Approved Denied Noted Comments:					1-	
Approved Denied Noted Comments:	The Contract with each woorders more specification on the first shall be conmaintenance personnel.  All costs that	etor shall ehicle do than o ns, the c vehicle o ducted te opera	Il provide a vehicle or elivered to GPTD. If Gene vehicle of identication shall be produced by the Contractor for tions supervisory and cidental to the initial	SPTD  al rovided ation GPTD's d training	New Flyer reque priced separately ensure proper co of buses in the b option order.	ests approval that all training be y from the bus price. This will osting regardless of the number
Approved Denied Noted Comments:						
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Approved Denied Noted Comments:						
Comments: 3/3/22	PTD Respoi	nse:				
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	Comments:					
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	Signature of	GPTD	Official			

	Nev	v Flyer of America			
Proposer/V	ehicle M	Manufacturer		_	
RFP Part	II	Section Number	B.12	Section Title	CHANGES OF LAW/PRICE ADJUSTMENTS
Describe Rec	suest la	nclude annronriate su	innorting	documentation a	s outlined in the RFP:
AE Number		6 PDF Page Nur		22 Attachme	
Specification	n Lang	uage		Request for Ap	-
					ests approval to revise the
					age to add element of good faith, ext is added language and struck
				text is omitted:	
				and the sector	
				according to the	actor, <b>on a good faith basis</b> , e GPTD's
					C 31 12 3
GPTD Respo	nse:	·			<del> :</del>
Approved		Denied □	Noted		
	<b>/</b> \				
Comments:					
	15				0 45 455
	16	<i>[ ]</i>			317/22
Signature of	GPTD	Official			Date

	New	Flyer of America			
Proposer/Ve	hicle N	Manufacturer			
RFP Part _	В	Section Number	B.10-5	Section Title	TERMINATION FOR CONVENIENCE
<b>Describe Req</b> AE Number		nclude appropriate si		documentation 20 Attachr	n as outlined in the RFP: mentNo
Specification	n Langu	age		following land date of terminal language and second	Approval quests approval to revise the guage to ensure New Flyer is paid to ination, in which bold text is added if struck text is omitted:  If inal for all the purposes of this contractor shall be paid its costs, intract close-out costs, and profit on med up to the time of termination.
GPTD Respor		Denied 🗆	Noted		
Comments:	<b>/</b> `				
Signature of	GPTD	Official			3/7/22 Date

	New	Flyer of America					
Proposer/V	ehicle M	lanufacturer					
RFP Part	11	Section Number	B.15	Section Title	MAINTENANCE OF ACCESS BY AGENCY AUDIT RECO	; RIGHT TO	
Describe Req	=			documentation	as outlined in the RFP	:	
Specificatio	n Langu	age		following lang confidentialit applies to the years was add open-ended it which bold to is omitted: provisions s Documents, a after complete confidentialities analysis in or	Approval quests approval to revis guage to clarify that the y agreement in section e government audits, a re ded to set a parameter ight of access/audit app ext is added language ar  pecified elsewhere in the end shall extend for thr tion of the contract. The y agreement as set for apply to any nudit, rev der to protect and main y of the Contractor's in	II.B.16 also term of 3- to which thi plies, in ad struck tex ne Contract ee years e th in section liew or ntain the	rt T
GPTD Respon	nse:			-			_
Approved		Denied 💢	Noted	u			
Contra	len fla	ality is	ade	quately	covered	24	Section li
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Signature of	GPTD O	fficial			Date		

	New	Flyer of America			
Proposer/V	ehicle N	Manufacturer		<del>like karan</del>	
RFP Part _	J.	Section Number _	B.16	_ Section Title _	CONFIDENTIAL INFORMATION
<b>Describe Req</b> AE Number	•			documentation 24 Attachm	as outlined in the RFP: ent <u>No</u>
Specificatio	n Langu	lage		following lang element to de liable, in which struck text is o	uests approval to revise the uage to add proven and reasonable fence costs for which New Flyer is h bold text is added language and omitted:  hall indemnify GPTD's proven and
GPTD Respor	rse:				
Approved	<b>X</b>	Denied	Noted		
Comments:					
Slandon	$\mathcal{C}$	F			3/7/22

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer			
RFP Part	IV IV	Section Number	01 06	Section Title	DEFINITIONS DRIVETRAIN
		clude appropriate su	pporting	documentation as o	outlined in the RFP:
AE Number	14	PDF Page Nun	nber	0 Attachment	No
Heavy heav cylinder line and a rated 250. ENGINE The HHDD e for not less	eavy-Du y-duty d ers, are d horsepo engine sl than 30 gnificant	uty Diesel Engine (HHI liesel engines have sle designed for multiple ower that generally ex hall be designed to op 0,000 miles without no deterioration The	eeved rebuilds, xceeds perate najor	L9 2021 emissions horsepower with sepa/Engine Mode exchanger for the Note that the engine (HDD) and sleeved cylinder.	ts approval to provide Cummins is-standard diesel engine, 280 925 LB FT torque and el Year. This engine uses a heat isolated cabin heating loop. ine is classified as Heavy-Duty is delivered without double the bus design and is same as
GPTD Respo	7				
Approved	X	Denied	Noted		
Comments:					
Signature of	GP	Official			3/3/22 Date

	New	Flyer of America			
Proposer/Ve	hicle N	/lanufacturer			
RFP Part _	II	Section Number _	C.16	_ Section Title	ACCEPTANCE OF EQUIPMENT
Describe Rea	uest Ir	sclude annronriate su	nnortine	documentation :	as outlined in the RFP:
AE Number	1			30 Attachme	
Specification	n Langu	ıage		following languation when acceptar which bold text is omitted:under the GP acceptance test and the standation agreed upon by prior to the Cothe equipment Contractor, or Contractor of Contractor	uests approval to revise the uage to clarify the parameters for nee of the vehicle has occurred, in it is added language and struck text.  PTD's acceptance tests. The sts to be conducted by the GPTD ards in respect of such tests shall be by the GPTD and the Contractor intractor building the equipment. If it passes these testsmet by the if the GPTD does not notify the non-acceptance within 25 after delivery of the equipment, the equipment by the GPTD shall
GPTD Respon	_			Se deeliled to	have occurred on the twenty
Approved		Denied $\square$	Noted		
Comments:					
Signature of	(G	Official			3/7/22

	New	Flyer of America			
Proposer/V	ehicle N	lanufacturer			
RFP Part _	IV	Section Number _	40	Section Title	SCOPE OF WARRANTY PROVISIONS
Describe Rec	juest. Ir			documentation	n as outlined in the RFP: mentNo
Specificatio	n Langu	iage		Request for	Approval
_		omponents that have	-		quest approval to provide that when
	-	nents will be equal to			t is declared, the remaining warranty
defective co		originally provided on	the	III '	at item/component is suspended.  y period does not resume until the
defective co	ilipolie	iits.		Fleet Defect	- <del>-</del>
				1	
GPTD Respon	nse:				
Approved	<b>X</b>	Denied $\square$	Noted		
Comments:					
		6			21260
	(	(OP)			3/3/22
Signature of	GPTD	Official			Date

#### Voith Turbo

Voith Turbo Inc.
25 Winship Road
York, PA 17406, USA
Tel 717-767-3200
Fax 717-767-3210
www.usa.voithturbo.com



Here are the performance curves for New Flyer XD35 GPTD. I have included a table on this sheet, which will summarize the performance of these buses.

The simulations were based on the following parameters:

Vehicle weight: GVWR: 36500lbs

Engine: Cummins L9 280HP EPA 2021

Auxiliary consumers: 50HP/163Nm on engine

Transmission: D864.6 F4VT2R2

Rear axle ratio: 4.56

Tires: 305/70 R22.5 / Dynamic radius 0.485 m

		Vehicle Performance									
	Gradea	ability			Top Speed						
Standard and	2.5%	16%	0 - 10 mph	0 - 20 mph	0 - 30 mph	0 - 40 mph	70 [mph]				
Simulation:	40 [mph]	7 [mph]	5.0 [s]	10.8 [s]	20.0 [s]	31 [s]					
V00474.01.001	55	9	2.1	6.3	13.3	22.3	65				

Please remember that all acceleration times are calculated from a stall start, not an idle start. For idle start times you typically add 1.5~2.5 sec to the stall start times to compensate for engine run-up.

The performance information above is based on given vehicle data. Voith offers no guaranties as to actual vehicle performance. This will vary due to component influences and characteristics, which are beyond our control.

If you require any more information or if you have any questions, please let me know.

Best regards / Freundliche Grüße / Atenciosamente

Washington Moura Application Engineer Washington.Moura@voith.com Tel +1 717 767 3008 Mobile +1 717 659 0225

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**AE #17 / AE #18** 

Driveline / Antriebsstrang

Section: 1 Page: 1 V00474.01.001 Test/Versuch

Vehicle / Fahrzeug

New Flyer D 35 LF Citybus

Vehicle weight / Fahrzeuggewicht: 16.56 [t]

Top speed / Endgeschwindigkeit 103.7 [km/h] (64.4 [mph])

Engine / Motor

Cummins L9 280 209,0 kW / 1900 (1900/1900) 1/min [1/min]

EPA 2021 1254 [Nm]

Auxiliary consumers / Nebenverbraucher: 1

Nebenverbraucher 163.0 [Nm] am Motor

Primary gearb ox / Vorschaltgetriebe

No input-side gearbox / kein Vorschaltgetriebe

Transmission / Getriebe

VOITH D 864.6 DHf.4

Starting element / Anfahrelement

**VOITH DIWA.6 DIff.4V** 

Type: hydrodynamic, Maximum traction force / Art: hydrodynamisch, Festbremspunkt: 1619 [U/min] / 1068 [Nm] Max. traction force without auxiliary consumers / Festbremspunkt ohne Nebenverbraucher: 1697 [U/min] / 1173 [Nm]

Braking element / Bremselement

VOITH 1800Nm 300kW 1500Nm T2R2

ECE 13 / TÜV-Punkt: 149.3 [%]

ECE 13 converter power at braking / TÜV-Punkt Wandlerleistung beim Bremsen: 71.9 [kW] (96.4 [h.p.])

ECE 13 engine / TÜV-Punkt Motor: 1018.0 [U/min] bei 56.0 [Nm]

Final drive gearbox / Nachschaltgetriebe

no final drive gearbox / kein Nachschaltgetriebe

Axle / Achse

Ratio / Uebersetzung: 4.560

Tyres / Reifen

305/70 R 22.5 rdyn: 0.485 [m] (1.591 [ft])

Rolling resistance coefficient / Rollwiderstandsbeiwert: 0.0070

Shifting programme / Schaltprogramm

BASP automatic generated / automatisch generiert

Driver / Fahrer

Testfahrer 100 % driver / Fahrer

Operation: full load, experience: excellent / Fahrwelse: Vollast, Erfahrung: sehr groß



Section: 2 Page: 2

Tractive force diagram / Zugkraftdiagramm

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug: New Flyer D 35 LF Citybus

 $r_{dyn} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

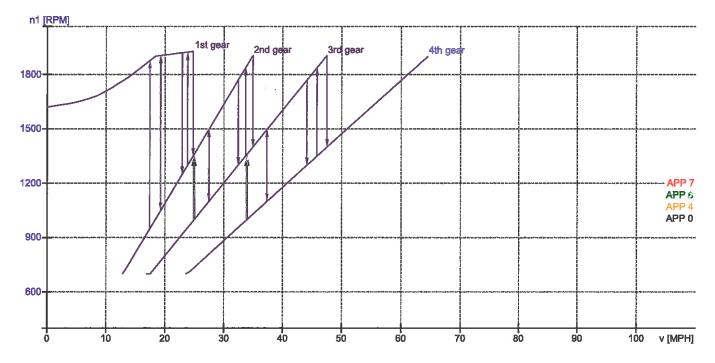
Engine / Motor: Cummins L9 280

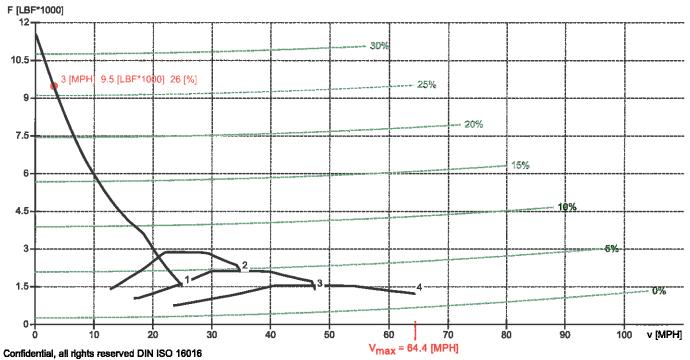
280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe: D 864.6 Diff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

i<sub>1max</sub> = 5.400 i<sub>2</sub> = 1.361 i<sub>3</sub> = 1.000 i<sub>4</sub> = 0.735

Shiftprogram / Schaltprogramm: SP4







Section: 3 Page: 3

Braking diagram - Acceleration diagram / Bremskraftdiagramm - Beschieunigungsdiagramm

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug: New Flyer D 35 LF Citybus

 $r_{dVD} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

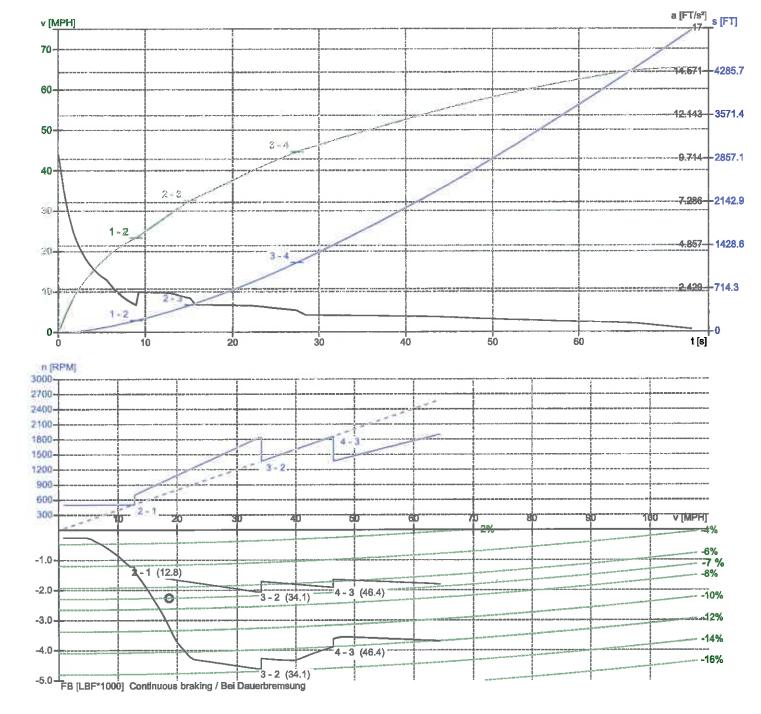
Engine / Motor: Cummins L9 280

280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe: D 864.6 DHf.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

 $i_{1max} = 5.400 i_2 = 1.361 i_3 = 1.000 i_4 = 0.735$ 

Shiftprogram/ Schaltprogramm: SP4





#### Shiftprogram upshift / Schaltprogramm Hochschaltung

Section: 4 Page: 4

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug: New Flyer D 35 LF Citybus

 $r_{dyn} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

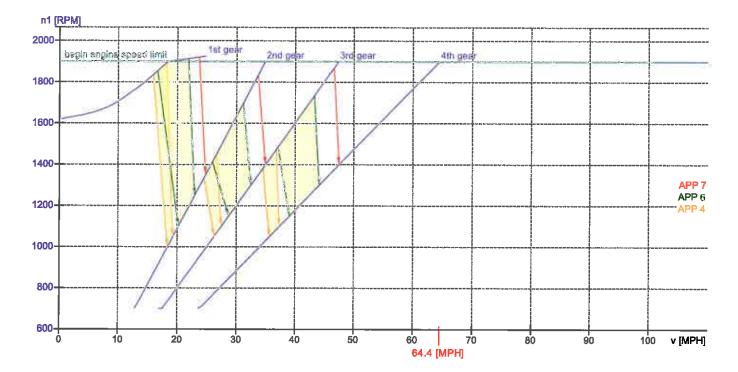
Engine / Motor: Cummins L9 280

280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe: D 864.6 Diff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

i<sub>1max</sub> = 5.400 i<sub>2</sub> = 1.361 i<sub>3</sub> = 1.000 i<sub>4</sub> = 0.735

Shiftprogram/ Schaltprogramm: SP4



	aN	1ax	ah	1in
	n1[RPM]	v[MPH]	n1[RPM]	v[MPH]
	from-to	from-to	from-to	from-to
Upshift 1-2				
APP4	1837-1000	15.8-18.3	1895-1049	18.1-19.2
APP6	1856-1100	16.6-20.1	1915-1249	21.8-22.9
APP7			1922-1350	23.6-24.7
Upshift 2-3				
APP4	1337-1051	24.5-26.2	1452-1100	26.6-27.4
APP6	1413-1150	25.9-28.6	1699-1300	31.1-32.4
APP7			1834-1400	33.6-34.9
Upshift 3-4				
APP4	1382-1050	34.4-35.6	1475-1100	36.7-37.3
APP6	1486-1150	37.0-39.0	1735-1300	43.2-44.1
APP7			1871-1400	46.6-47.5

APP\* = Accelerator Pedal Position



Shiftprogram downshift / Schaltprogramm Rückschaltung

Section: 5 Page: 5

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug:

New Flyer D 35 LF Citybus

 $r_{dyn} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

Engine / Motor.

Cummins L9 280

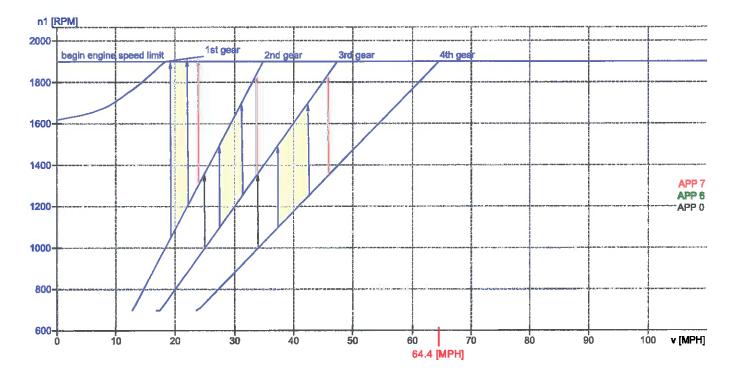
280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe:

D 864.6 DIff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

 $I_{1max} = 5.400 i_2 = 1.361 i_3 = 1.000 I_4 = 0.735$ 

Shiftprogram/ Schaltprogramm: SP4



	aM	lin	aN	lax
	n1[RPM]	v[MPH]	n1[RPM]	v[MPH]
	from-to	from-to	from-to	from-to
Downshift 2-1				
APP0	0-0	0.0-0.0		
APP6	1053-1904	19.3-19.2	1213-1916	22.2-22.0
APP7	1303-1923	23.9-23.8		
Downshift 3-2				
APP0	1003-1361	25.0-24.9		
APP6	1103-1497	27.5-27.4	1259-1701	31.4-31.1
APP7	1353-1837	33.7-33.6		
Downshift 4-3				
APP0	1002-1361	34.0-33.9		
APP6	1102-1497	37.3-37.3	1257-1700	42.6-42.4
APP7	1352-1837	45.8-45.8		

APP\* = Accelerator Pedal Position



#### Acceleration table / Beschleunigungs Tabelle

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug:

New Flyer D 35 LF Citybus

 $r_{dyn} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

Engine / Motor:

280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe:

D 864.6 Diff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

 $i_{1max} = 5.400 i_2 = 1.361 i_3 = 1.000 i_4 = 0.735$ 

Shiftprogram / Schaltprogramm: SP4

Time	Vehicle accel.	Vehicle speed	Distance	Gear	Tractive force	Engine speed	Engine torque	Engine power	Load step
Fahrzeit	Fahrz	Fahrg.	Wegstrecke	Gang		Drehz	Drehm	Leistung	Last-
	beschl.					Motor	Motor	Motor	stufe
t[s]	a[FT/s²]	v[MPH]	s[FT]	[-]	F[LBF*1000]	n1[RPM]	M1[LBFT]	PM1[HP]	[-]
					-				
0.01	9.96	0.05	0.0	1	11.56	1620.2	908.0	280.09	7
0.02	9.92	0.12	0.0	1	11.51	1620.5	907.8	280.07	7
0.03	9.88	0.18	0.0	1	11.47	1620.9	907.6	280.10	7
0.08	9.84	0.52	0.0	1	11.43	1621.2	907.4	280.08	7
0.17	9.47	1.14	0.1	1	11.00	1624.8	905.5	280.11	7
0.27	9.09	1.77	0.4	1	10.57	1628.3	903.5	280.09	7
0.40	8.72	2.49	0.7	1	10.15	1631.9	901.6	280.12	7
0.53	8.25 7.87	3.24	1.3	1 1	9.61 9.19	1635.8	899.5 897.6	280.12	7
0.66 0.79		3.92	2.0	1	8.77	1639.3		280.14	7 7
0.79 0.92	7.5 <del>0</del> 7.17	4.59 5.26	2.8	1	8.40	1643.4 1648.1	895.3 892.7	280.13	7
1.07	6.84	5.93	3.8 4.9	1	8.03	1653.3	889.9	280.12 280.10	7
1.22	6.52	6.60	6.3	1	7.66	1659.2	886.7	280.10	7
1.38	6.22	7.27	7.9	1	7.32	1665.9	883.0	280.06	7
1.54	5.92	7.94	9.8	1	6.98	1673.3	879.0	280.03	7
1.72	5.63	8.61	11.9	1	6.65	1680.7	875.0	279.97	7
1.90	5.38	9.28	14.3	1	6.37	1690.9	869.4	279.87	7
2.09	5.14	9.95	17.0	1	6.10	1702.1	863.4	279.79	7
2.29	4,92	10.63	20.0	1	5.85	1715.0	857.3	279.91	7
2.50	4.70	11,30	23.4	1	5.60	1727.5	851.2	279.96	7
2.72	4.49	11.97	27.1	ī	5.36	1741.5	844.5	280.00	7
2.95	4.29	12.64	31.3	ī	5.13	1755.7	837.7	280.02	7
3.19	4.08	13.31	35.9	1	4.91	1768.6	831.5	279.99	7
3.44	3.90	13.98	40.9	1	4.70	1783.4	824.4	279.93	7
3.71	3.74	14.65	46.4	1	4.52	1798.7	817.1	279.80	7
3.98	3.59	15.32	52.5	1	4.35	1816.1	809.6	279.93	7
4.27	3.43	16.00	59.1	1	4.18	1832,3	802.7	280.01	7
4.57	3.30	16.67	66.2	1	4.02	1849.2	795.4	280.02	7
4.88	3.18	17.34	73.9	1	3.89	1867.3	787.7	280.04	7
5.20	3.06	18.01	82.3	1	3.76	1883.8	780.6	279.97	7
5.53	2.93	18.68	91.3	1	3.62	1900.6	768.5	278.07	7
5.89	2.72	19.35	101.4	1	3.38	1903.3	743.4	269.37	7
6.29	2.50	20.02	112.8	1	3.13	1906.0	717.6	260.39	7
6.72	2.28	20.69	125.6	1	2.89	1908.8	691.8	251.39	7
7.19	2.08	21.36	140.2	1	2.66	1911.6	665.8	242.31	7
7.72	1.89	22.04	156.8	1	2.44	1914.4	640.1	233.28	7
8.29	1.71	22.71	175.8	1	2.24	1917.1	614.7	224.35	7
8.93	1.54	23.38	197.4	1	2.05	1919.9	589.2	215.38	7
9.22	2.26	23.83	207.4	2	2.87	1283.1	924.9	225.94	7
9.66	2.25	24.50	222.9	2	2.87	1319.8	924.9	232.40	7
10.10	2.25	25.17	238.8	2	2.87	1356.5	924.9	238.86	7
10.53	2.25	25.84	255.2	2	2.87	1393.1	924.9	245.31	7
10.97	2.24	26.51	272.1	2	2.87	1429.8	924.9	251.77	7
11.41	2.24	27.18	289.4	2	2.87	1466.4	924.9	258.22	7
11.85 12.30	2.23 2.22	27.85 28.52	307.2 325.5	2	2.87 2.86	1503.1	924.8 922.5	264.64	7 7
12.30	2.22	29.19	343.3 344.3	2		1539.8	922.5	270.45	7
13.19	2.21	29.19	363.9	2	2.85 2.82	1576.4 1613.1	920.4	276.23 280.04	7
13.66	2.15	30.54	384.6	2	2.74	1649.7	911.8 891.9	280.11	7
13.00		50.54	337.0	~	2.74	1042.7	021.3	200.II	,

Section: 8 Page: 6



#### Acceleration table / Beschleunigungs Tabelle

Section: 8 Page: 7

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug:

New Flyer D 35 LF Citybus

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Cummins L9 280

280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

Transmission / Getriebe:

D 864.6 Diff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

 $I_{1max} = 5.400 I_2 = 1.361 I_3 = 1.000 I_4 = 0.735$ 

Shiftprogram / Schaltprogramm: SP4

Time	Vehicle accel.	Vehicle speed	Distance	Gear	Tractive force	Engine speed	Engine torque	Engine power	Load step
Fahrzeit	Fahrz beschl.	Fahrg.	Wegstrecke	Gang	Zugkraft	Drehz Motor	Drehm Motor	Leistung Motor	Last- stufe
t[s]	a[FT/s²]	v[MPH]	s[FT]	[-]	F[LBF*1000]	n1[RPM]	M1[LBFT]	PM1[HP]	[-]
					-				
14.14	2.04	31.21	406.4	2	2.67	1686.4	<b>87</b> 1.9	279.93	7
14.64	1.98	31.88	429.5	2	2.60	1723,1	853.4	279.95	7
15.16	1.92	32.55	453.7	2	2.54	1759.7	835.8	280.01	7
15.79	1.55	33.22	484.3	3	2.12	1319.9	924.9	232,42	7
16.43	1.55	33.89	515.7	3	2.12	1346.8	924.9	237.16	7
17.06	1.54	34,56	547.7	3	2.12	1373.8	924.9	241.91	7
17.70	1.54	35.23	580.4	3	2,12	1499.7	924.9	246.65	7
18.35	1.53	35.91	613.9	3	2.12	1427.6	924.9	251.38	7
18.99	1.53	36.58	648.1	3	2.12	1454.6	924.9	256.14	7
19.64	1.52	37.25	683.1	3	2,12	1481.5	924.9	260.87	7
20.28	1.52	37.92	718.8	3	2.12	1508.5	924.4	265.48	7
20.94	1,51	38.59	755.4	3	2.12	1535.4	922.8	269.76	7
21,59	1.50	39.26	792.9	3	2.11	1562.3	921.2	274.01	7
22,25	1,49	39,93	831.2	3	2.11	1589.3	919.7	278.27	7
22,92	1,46	49.60	870.9	3	2.08	1616.2	910.2	280.05	7
23,62	1.42	41,27	912,4	3	2.04	1643.1	895.5	280,12	7
24.33	1.38	41.95	955.9	3	2.00	1670.1	880.7	280.04	7
25.06	1.34	42.62	1001.4	3	1.96	1697.0	866.0	279.81	7
25.82	1.30	43.29	1049.0	3	1.92	1723.9	852.9	279.93	7
26.59	1.27	43.96	1098.6	3	1.89	1750.9	840.0	280.01	7
27.39	1.23	44.63	1150.5	3	1.85	1777.8	827.1	279.95	7
28,42	0.96	45.30	1218.1	4	1.55	1326.5	924.9	233.58	7
29,45	0.95	45.97	1287.1	4	1.55	1346.3	924.9	237.07	7
30.48	0.95	46.64	1357.5	4	1.55	1366.1	924.9	240.55	7
31,53	0.94	47.31	1429.4	4	1.55	1385.9	924.9	244.04	7
32,58	0.94	47.99	1502.7	4	1.55	1405.7	924.9	247.53	7
33.63	0.93	48.66	1577.5	4	1.55	1425.5	924.9	251.01	7
34,70	0.93	49.33	1654.0	4	1.55	1445.3	924.9	254.50	7
35.77	0.92	50.00	1732.0	4	1.55	1465.1	924.9	257.99	7
36.85	0.91	50.67	1811.7	4	1.55	1484,9	924.9	261.47	7
37.93	0.90	51.34	1893.0	4	1.54	1504.7	924.6	264.88	7
39.03	0.90	52.01	1976.3	4	1.54	1524.5	923.4	268.02	7
40.14	0.89	52.68	2061.4	4	1.54	1544.3	922.3	271,17	7
41.26	0.88	53.35	2148.6	4	1.53	1564.1	921.1	274.30	7
42.39	0.87	54.03	2237.7	4	1.53	1583.9	920.0	277,42	7
43.54	0.86	54.70	2329.3	4	1.52	1603.7	917.0	279.98	7
44.73	0.83	55.37	2424.8	4	1.50	1623.5	906.2	280.09	7
45.95	0.81	56.04	2524.7	4	1.48	1643.3	895.4	280,14	7
47.21	0.78	56.71	2629.1	4	1.46	1663.1	884.6	280.08	7
48.52	0.75	57.38	2738.3	4	1.44	1682.9	873.8	279,96	7
49.87	0.73	58.05	2852.6	4	1.42	1702.7	863.2	279.81	7
51.26	0.70	58.72	2972.2	4	1.40	1722.5	853.7	279.95	7
52.71	9.68	59.39	3097.5	4	1.38	1742.3	844.1	280.01	7
54.21	9.66	60.07	3228.8	4	1.36	1762.1	834.7	280.02	7
55.77	Ø.63	69.74	3366.7	4	1.34	1781.9	825.2	279.94	7
57.38	0.61	61.41	3511.6	4	1.32	1801.7	815.7	279.81	7
59.06	0.59	62.08	3663.8	4	1.30	1821.5	807.3	279.97	7
60.81	0.56	62.75	3823.8	4	1.28	1841.2	798.9	280.03	7
62.63	0.54	63.42	3992.4	4	1.27	1861.0	790.4	280.03	7
02.00	0157	JJ 1-12	222217	-4			- 2017		-



Acceleration table / Beschleunigungs Tabelle

Section: 8 Page: 8

V00474.01.001 Test/Versuch

Vehicle / Fahrzeug:

New Flyer D 35 LF Citybus

 $r_{dyn} = 19.094 [IN] f_R = 0.007 i_A = 4.560$ 

CW = 0.450 A = 82.426 [SQFT] m = 36.51 [LB\*1000] V<sub>max</sub> = 64.4 [MPH]

Engine / Motor:

Cummins L9 280

280 [HP] (1900 [RPM]) 925 [LBFT] (1200-1590 [RPM]) EPA 2021

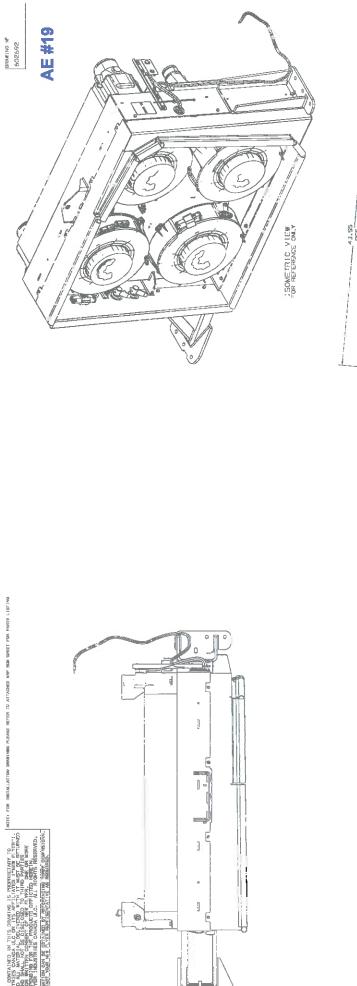
Transmission / Getriebe:

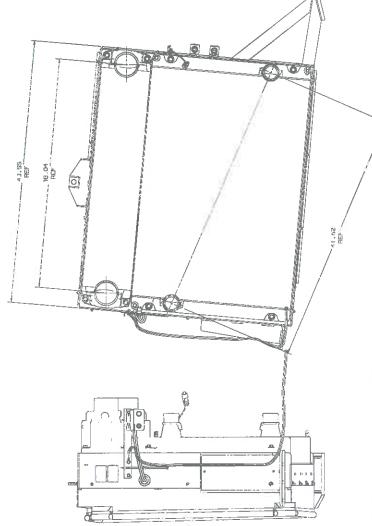
D 864.6 Diff.4V DIWA.6 T2R2 1800Nm 300kW 1500Nm

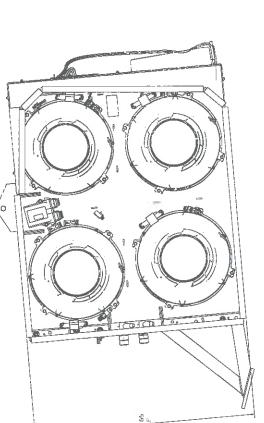
 $i_{1max} = 5.400 \ i_{2} = 1.361 \ i_{3} = 1.000 \ i_{4} = 0.735$ 

Shiftprogram/ Schaltprogramm: SP4

Time Fahrzeit	Vehicle accel. Fahrz beschl.	Vehicle speed Fahrg.	Distance Wegstrecke	Gear Gang	force	Engine speed Drehz Motor	Engine torque Drehm Motor	Engine power Leistung Motor	Load step Last- stufe
t[s]	a[FT/s²]	v[MPH]	s[FT]	[-]	F[LBF*1000]	n1[RPM]	M1[LBFT]	PM1[HP]	[-]
64.54	0.52	64.09	4170.1	4	1.25	1880.8	781.9	279.98	7
66.57	0.48	64.76	4362.1	4	1.22	1900.6	767.7	277.80	7
72.95	0.15	65.43	4971.8	4	0.85	1920.4	583.9	213.47	7





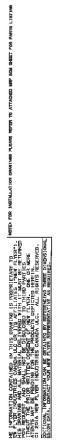


NOTE: BRAZING FLUX POTASSIUM ALUMINUM FLUGRIDE IS NOT TO BE USED IN THE CONSTRUCTION OF THE CHARGE AIR COOKER.

DESCRIPTION: RADZCAC MH4 OUN IV ASSEMBLY

VENDOR:

	WP MH4 GEN IV		PART N	603603	26220		L
TITLE	ASSY-RAD/CAC EMP MH4					NEW PLYER	
WEREO'D TOLS, DEC. IN., TITLE	NA.	1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BEO ROLL O.		SIMILAR TD	W76716	
MATTERIAL			GE C		REATMENT	M. ACK POMDISTICOAT	



MH4 46X4	46X4336DG XCELSIOR	R (2 CORE): PRODUCT SPECIFICATION SHEET
FEATURE		DESCRIPTION/SPECIFICATION
AMBIENT OPERATION	TON TEMP RANGE	-40F TO 120F (-40C TO 46C) FULL LOAD
AMBIENT STORAG	STORAGE TEMP RANGE	-40F TO 221F (-40C TO 105C)
RADIATOR DESIGN	Z <sub>2</sub>	CAST AL TANKS, AL BAR-PLATE WITH 8.5 FPI WAVY FIN & 50 HOT ROW CORE
CENTER CORE (0	(O1L/WATER)	N/A
CAC DESIGN		CAST AL TANKS , AL BAR-PLATE WITH 8.5 FPI WAVY FIN & 16 HOT ROW CORE
FAN DRIVE SYSTEM	ЕМ	4 EMP FIL-15 15" DIAMETER ELECTRIC FANS
FAN FLOW DIRECTION	NOIL	PUSHER
COOLING FAN SPEED	,EED	VARIABLE SPEED 0-4350 RPM
FAN CONTROL SY	SYSTEM	ELECTRONIC FEEDBACK CONTROL
FAN FAIL-SAFE		FAN ON AT DEFAULT SPEED @ 3300 RPM
CURRENT DRAW (	(28 VDC)	ZZB AMPS MAX
REVERSIBLE FAN	FANS/DEBRIS REMOVAL	PUSHBUTTON OPERATION / OPTIONAL SAE J1939 DM7 MESSAGE
CURBSIDE QUIET MODE	MODE	AUTOMATIC VIA SAE J1939 CCVS MESSAGE
CAN COMMUNICATION	NOI	STANDARD SAE J1939 PROTOCOL
SYSTEM DIAGNOSTIC	STIC REPORTING	SAE J1939 DMI MESSAGE
SYS DIAGNOSTICS	S TROUBLESHOOTING	LAPTOP SERVICE TOOLS VIA SAE J1939 DIAGNOSTICS PORT
SYSTEM FAULT I	INDICATOR	FLASHING LED CODES
SOFTWARE/CAL15	5	LAPTOP SERVICE TOOLS VIA SAE J1939 DIAGNOSTICS PORT
CONTROL PARAMETERS	TERS	J1939 ENGINE COOLANT AND INTAKE MANIFOLD TEMPERATURES. OPTIONAL: TRANS FAN REQUEST
CALIBRATIONS B	BASED ON ENGINE MODEL	PROGRAMMABLE FAN ACTIVATION TEMPERATURE AND FULL COOLING COMMAND BASED ON COOLANT AND CHARGE AIR TEMPERATURE, OPTIONAL: TRANS FAN REQUEST
FAN CONTROL ST	STRATEGIES	INDEPENDENT CHARGE AIR AND COOLANT TEMPERATURE CONTROL PER HEAT EXCHANGER. OPTIONAL: MINIMUM FAN SPEEDS FOR ENGINE COMPARTMENT CIRCULATION, AFTER ENGINE WARM UP
GROUND CABLE		50" GROUND CABLE ATTACHED TO RAD





# Sales Information Bulletin

#241-003 | Xcelsior® | 35FT, 40FT, 60FT

# Polyethylene Diesel Fuel Tank

#### **Product Features**

The fuel system includes:

- Single cross-linked polyethylene fuel tank
- Fueilines and check valve
- Fuel filters
- Fuelpump
- Fuelfiller

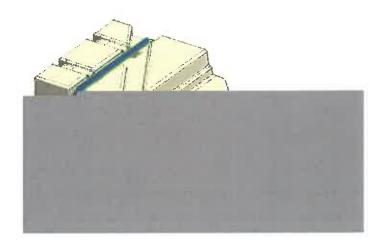
#### Fuel Tank

A single fuel tank is mounted transversely in the vehicle chassis, forward of the rear axle. A fuel filler neck assembly is bolted to the tank and provides mounting locations for the fuel-filler adapter, pressure relief valve, and fuel-level control valve. Fuel tank fill access is provided through a hinged door on the curbside of the vehicle. Supply and return fuel hoses connect the fuel tank with the engine.

The tank is constructed of cross-linked polyethylene with a nominal thickness of 0.300". The tank is internally baffled to prevent fuel sloshing regardless of fill level.

- The polyethylene diesel fuel tank comes in the standard size of 144 US gallons (545 L).
- All lengths of diesel buses allow up to either 100 or 125 usable US Gal (378 L /473 L).
- All lengths of diesel-hybrid buses allow up either 100 or 125 usable US Gal (378 L /473 L).

The fuel tank assembly is securely mounted to the bus with two support channels on both sides and a tubular structure in the center. The fuel tank 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.





ERROR: undefined OFFENDING COMMAND: ec

STACK:

-savelevel-

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP PartIV Section Number39	Section Title FLEET DEFECTS
Describe Request. Include appropriate supporting AE Number96 PDF Page Number	g documentation as outlined in the RFP:  110 Attachment No
Specification Language A fleet defect is defined as the failure of identical parts from identical causes, covered by the warranty and occurring in the warranty period in a proportion of the buses delivered under this contract. For deliveries of 9 buses and under, the fleet defect proportion shall be 50%.	the most value from your vehicles and is requesting approval on fleet defect coverage for the limited base bus warranty period of 1
GPTD Response:  Approved □ Denied ★ Noted	
Comments:	
Signature of GPTD-Official	3/3/22 Date

New Flyer of Americ	a		
Proposer/Vehicle Manufacturer			
RFP Part IV Section Num	ber <u>34</u>	Section Title	WARRANTY REQUIREMENTS
<b>Describe Request. Include appropria</b> AE Number 95 PDF Pag		documentation a	
Specification Language Specific subsystems and componen warranted and guaranteed to perform defects for the following whichever occurs first, given in Tab	orm and be times or miles, le 3-1.	300,000 mile N warranty cover the manufactu	viest approval to provide a 5 years / MAN Axle limited warranty. The rs components only as specified by rer's warranty document.
Drive Axle - 2 years / 100,000 miles and Labor	, 100% Parts	for terms and	conditons.
GPTD Response:		. !	
Approved □ Denied □	Noted	Z	
Marranty requirem Manufacturers n	neut is	e as s	tated in RFP. Honol warranty.
(CE)	l .		3/3/22
Signature of GPTD Official			Date

New Flyer of America		
Proposer/Vehicle Manufacturer		
RFP PartIV Section Number27	Section Title	BATTERIES
Describe Request. Include appropriate supportin AE Number 90 PDF Page Number	g documentation as ou 107 Attachment	
Specification Language Battery terminals shall be located for access in less than 30 seconds with jumper cables.	jumpstart connected (without a connected Jumpstarting the bacconnector is more importantly, it elim	s approval to provide a or as opposed to jumper cables
GPTD Response:  Approved ☐ Denied ☐ Noted		
Comments:		
Signature of GPTD Official		3/3/22 Date

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer			
RFP Part _	IV	Section Number _	27	Section Title	BATTERIES
Describe Rec	quest. Ir	nclude appropriate su	pporting	g documentation as ou	ıtlined in the RFP:
AE Number				107 Attachment	No
C				l n	
Specification The hattery	_	al ends and <mark>cables</mark> sha	ll ha	Request for Appro	vai approval to color-code the
-		ed for the primary pos		•	sed to providing a full-colored
		and another color for	-		that the cables are also
intermediat	-		•	labelled with wire-	code to avoid incorrect
				installation along w	ith electrical diagram
					attery compartment door) as a
				reference for cable	-reinstallation.
				This is the same as	provided in previous builds.
GPTD Respoi	nse:				
Approved	¥	Denied $\square$	Noted		
Comments:					
	CX.	)			
	(OF	<del>`</del> )			3/3/22
Signature of	GPTD (	Official			Date

RFP Part IV Section Number 28 Section Title MASTER BATTERY S  Describe Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number 91 PDF Page Number 107 Attachment No  Specification Language  A lockable master switch on the battery positive (+) shall be provided in the battery compartment near the batteries for complete disconnecting from all bus electrical systems.  Request for Approval New Flyer requests approval to provide battery disconnect switch mounted on fusebox (located above the battery compartment).  This is the same as provided in previous	
Describe Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number 91 PDF Page Number 107 Attachment No  Specification Language  A lockable master switch on the battery positive (+) shall be provided in the battery compartment near the batteries for complete disconnecting from all bus electrical systems.  Request for Approval  New Flyer requests approval to provide battery disconnect switch mounted on fusebox (located above the battery compartment).	
AE Number 91 PDF Page Number 107 Attachment No  Specification Language A lockable master switch on the battery positive (+) shall be provided in the battery compartment near the batteries for complete disconnecting from all bus electrical systems.  Request for Approval New Flyer requests approval to provide battery disconnect switch mounted on fusebox (located above the battery compartment).	WITCH
A lockable master switch on the battery positive (+) shall be provided in the battery compartment near the batteries for complete disconnecting from all bus electrical systems.  New Flyer requests approval to provide battery disconnect switch mounted on fusebox (located above the battery compartment).	
	n the
GPTD Response: Approved   Denied □ Noted □	
Comments:	
Signature of GPTD Official Date	<i>3</i> 2

	New	Flyer of America				
Proposer/V	ehicle M	anufacturer				
RFP Part	IV	Section Number	31	Section Title	DIGITAL VIDEO I	
Describe Rec		clude appropriate so		documentation a		FP:
Specificatio The DVR mu video.	_	age d 8 channels of audi	o and		iproval lests clarification on quired for the came	
GPTD Respor	nse:					
Approved		Denied	Noted	<b>X</b>		
Comments:	(Vas	ore fo	equiv	ed (6	interior,	2 exterior
Signature of	(6)	ficial			3/3/	122
Signature Of	OF ID O	IICIAI			Date	

	New F	lyer of America			
Proposer/Ve	hicle Ma	nufacturer			
RFP Part _	IV	Section Number	34	_ Section Title	WARRANTY REQUIREMENTS
Describe Req	uest. Inc	ude appropriate su	pporting	documentation a	as outlined in the RFP:
AE Number	93	PDF Page Nun		109 Attachme	
representati warranty iss subcomponent component warranty pe contact the appropriate component This require Contractor's	tor's war we will be ues relate ent on the or subcor riod (i.e., Contracte and time or subcor ment mu	ranty service the single contact ed to any componer bus. For example, mponent fails durin engine), the Distric or, who will then en ely response from th mponent manufacte st be identified in th warranty policy sub ions, Section 34).	nt or if a g the ct will asure an nat urer.	covered repairs a party in order for least expensive a possible. With the approval on the second out by the contractor the available to assist covered repairs a scope of expertises. Major Comportanted out by the transmission, HV in order to adherwarranty repairs dealer unless the warranty center, these repairs, withe original equi	priority to ensure that all warranty- are completed by the appropriate r you to receive the highest quality, and most efficient outcome his goal in mind, New Flyer requests following solutions:  Warranty-covered repairs should y the property and reimbursed by hrough iWarranty. New Flyer is st in completing these warranty- when it is beyond the property's
Approved	×	Denied   D	Noted		
	<i>[</i> <sup>5</sup>				
Comments:					
	(GE)	)			3/3/22

Date

Signature of GPTD Official

	New	Flyer of America			
Proposer/V	ehicle N	1anufacturer		_	
RFP Part _	IV	Section Number _	34	Section Title	WARRANTY REQUIREMENTS
<b>Describe Red</b> AE Number				documentation a	as outlined in the RFP:
	ill also p e caused	pay for road calls (bus d by equipment break		and difficulty in the bid stage, I follow the indu	predictable nature of Road Calls on predicting the cost impact during New Flyer requests approval to estry-standard and to not provide t for Roadcalls and
GPTD Respon Approved		Denied □	Noted		
Comments:	^			_	
Signature of	GPTD O	fficial			3/3/27 Date

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer		_	
RFP Part _	IV	Section Number	20	Section Title	SIGNAGE AND COMMUNICATION
Describe Red AE Number				documentation	n as outlined in the RFP: mentNo
Specification The message and seated	e shall	be <mark>visible to the seate</mark>	d driver	interior sign of be viewed by this location i However, we for the seated regular stop of requested.	Approval quests approval to mount the on the HVAC enclosure where it can all seated passengers. Please note is not visible to the seated operator. provide dash indicators dedicated dioperator to notify whether a or wheelchair stop has been me as provided in previous builds.
GPTD Respo		_			
Approved	M	Denied	Noted		
Comments	:				
	6				3/3/22
Signature o	t GPTD	Official			Date

	New	Flyer of America			
Proposer/Ve	ehicle N	lanufacturer	-	<del>_</del>	
RFP Part _	IV	_ Section Number _	21	Section Title	ELECTRICAL SYSTEM
Describe Req AE Number	uest. In	clude appropriate su		documentation as	
demonstrate	ed that and the	age only where it can be circuit breakers are no ey shall be easily acces		fuses for circuits amps or higher. I distribution circu and distribute po Fuses are used for severe problem i immediate action simply resetting to	sts approval to use high current with current requirements of 80 These would be the main power lits that originate in the fuse box ower throughout the coach.  Or these circuits to emphasize a in the circuit that requires in and it cannot be delayed by with a circuit breaker.  The ses provided in previous builds.
GPTD Respon	17	Denied □	Noted		
Comments:	N				
Signature of	GPTD-6	P)			3/3/22 Date

New Flyer o	f America			
Proposer/Vehicle Manufac	turer		_	
RFP PartIV Sect	ion Number _	23	Section Title	WIRING AND TERMINALS
Describe Request. Include a AE Number 82	<b>appropriat</b> e su PDF Page Num	_	documentation a	
Specification Language Wiring harnesses shall not different voltages unless at harness are sized to carry tinsulated for the highest veharness.	<mark>ll wires within t</mark> he current and	: <mark>he</mark> I	harnesses which functionality as wire color provincarries such as a 12V.  Doing this will e unnecessary ad the wire duct as	ests approval to provide h are separated based on their opposed to their voltages. Each ided will identify the voltage it red wire for 24V and blue wire for eliminate the creation of idition of harnesses that will stress and possibly, affect the air flow. The as provided in previous builds.
GPTD Response: Approved Den	ied □	Noted	0	
Comments:				
(GF)				3/3/22
Signature of GPTD Official				Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP PartIV Section Number23	Section Title WIRING AND TERMINALS
Describe Request. Include appropriate supportin	g documentation as outlined in the RFP:
AE Number 81 PDF Page Number	105 Attachment No
Specification Language  Except as interrupted by the master battery disconnect switch, battery and starter wiring sha	Request for Approval  New Flyer requests approval to provide continous cables between the battery and starter but it is
be continuous cables, grouped, numbered, and/or color-coded with connections secured by bolted terminals; and shall conform to	interrupted by the master battery switch and the
specification requirements of SAE Standard	comparement and battery comparements.
J1127-Type SGT or SGX and SAE Recommended Practice J541.	We provide this design to minimize the amount of electrical connections that would be stacked on the 24V load side of the master battery switch.
	This is the same as provided in previous builds.
COTO D	
GPTD Response:  Approved    Denied □ Noted	
Comments:	
(GF)	3/3/22
Signature of GPTD Official	Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part IV Section Number 23	Section Title WIRING AND TERMINALS
Describe Request. Include appropriate supporting AE Number83 PDF Page Number	documentation as outlined in the RFP:  105 Attachment No
Specification Language Double insulation shall be maintained as close to the terminals as possible.	Request for Approval  New Flyer request approval to use double insulation on all wiring except for wiring that is within an electrical panel. These panels would be the side console, rear panel, fuse box, switch box exit door panels and SDS panel.  Listed below are the reasons why New Flyer does not provide double insulation for wiring within the electrical panels:  - Clamps and tie wraps are strategically positioned which minimizes harness movement and the opportunity for harness chaffing  - All sharp edges near the harness routing is covered with a protective rubber channel eliminating the possibility of the wiring insulation getting damaged  This is the same as provided in previous builds.
GPTD Response:  Approved ☐ Denied ☐ Noted	
Comments:	
Signature of GPTD Official	3/3/22 Date

New Flyer of America			
Proposer/Vehicle Manufacturer			
RFP PartIV Section Number _	23	_ Section Title	WIRING AND TERMINALS
Describe Request. Include appropriate su	pporting	documentation a	s outlined in the RFP:
AE Number 84 PDF Page Num		105 Attachme	
Specification Language		Request for Ap	proval
All wiring harnesses over 5 feet long and			ests approval to provide spare
containing at least 5 wires shall include 1	0	-	are not going to be the same size
percent excess wires for spares that are t	he same		rire in the harness. The size of
size as the largest wire in the harness exc	luding	wiring we provi	de as spares will be dependent
the battery cables.		on:	
		at the location of accept.  - The max wire connector(s) with the routed spare	gauge that a Specific component where these spares are routed will gauge that the component II accept at the final destination of es.
		between major the vehicle. Inst	electrical distribution panel's ibn callation of spare wires in all ns can lead to wire chaffing and
COTO Postronos			
GPTD Response:			
Approved ☐ Denied ☐	Noted		
Comments:			
(GF)			3/3/22
Signature of GPTD Official			Date

New Flyer of America	
Proposer/Vehicle Manufacturer	_
RFP PartIV Section Number26	Section Title MULTIPLEX WIRING SYSTEM
Describe Request. Include appropriate supporting of AE Number 86 PDF Page Number 1.  Specification Language Wiring used for the multiplexing shall be stamped with the address of the corresponding I/O location.	Request for Approval New Flyer requests approval to stamp our wirings with wire code as opposed the address of its I/O location. Please note that the wires are stamped with wire code at 3-inches interval along the whole length of the wire.  Doing this allows the customer to change the input/output location of the wire without replacing the entire wire due to incorrect I/O address.  Please note that we also provide an electrical decal for wire code identification.  This is the same as provided in previous builds.
GPTD Response:  Approved   Denied □ Noted	
Comments:	
(GF)	3/3/22
Signature of GPTD Official	Date

	New	Flyer of America			
Proposer/V	ehicle N	1anufacturer		<del></del>	
RFP Part	IV	Section Number	24	Section Title	JUNCTION BOXES
Describe Red	quest. Ir	clude appropriate su	pporting	documentation as	outlined in the RFP:
AE Number	8	5 PDF Page Num	ber	106 Attachment	. No
Specification	n Langu	age		Request for App	roval
		<mark>sealed</mark> to prevent mois	sture		sts approval to provide sealed
		es, including engine ing, from reaching the	2	-	nly in areas where there is high- would be the junction boxes
electrical co	mpone	nts and shall prevent f	ire that	located in the ext	<del>_</del>
outside the		e box from propagatir	ıg	However, junctio	n boxes that are located in the
				interior of the bu	s are not sealed simply because
				-	osed to moisture. Instead, they be water and dust resistant and
					maintenance personnel.
GPTD Respor	nse:				
Approved	Ħ	Denied 🗆	Noted		
Comments:					
	/				
	(0	(P)			3/3/22
Signature of	GPTD C	official			Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part IV Section Number 2	7 Section Title BATTERIES
Describe Request. Include appropriate supportant AE Number 88 PDF Page Number	
Specification Language The batteries shall be securely mounted on a stainless steel tray that can accommodate the size and weight of the batteries.	Request for Approval New Flyer requests approval to provide a polyethylene battery tray supported by a stainless steel sub-frame.  This design is corrosion resistant, light weight and has proven to be extremely robust.  Please note that the batteries are supported by structural stainless steel U-channels sized to support two (2) 8D batteries or up to four (4) Group-31 batteries.  Please see attached SIB 260-001 Battery System for more information.  This is the same as provided in previous builds.
GPTD Response:  Approved   Denied □ No	ted 🗆
Comments:	
Signature of GPTD Official	3/3/22 Date

	New	Flyer of America			
Proposer/Ve	ehicle M	lanufacturer	·		
RFP Part _	IV	Section Number	26	Section Title	MULTIPLEX WIRING SYSTEM
<b>Describe Req</b> AE Number	uest. In			documentation a	as outlined in the RFP: ent <u>No</u>
personal cor diagnostic u	shall be nputer <mark>nit</mark> capa I function	age hosted on an IBM-coas well as a hand helemble of reading the new and address data,	<mark>d field</mark> etwork	multiplex syste but not with a Please note tha Multiplex syter	peroval pests approval to provide a pent that is accessed with a laptop hand held field diagnostic unit. The tata hand-held device for Vansco on is not available.  The as provided in previous builds.
GPTD Respon	1	Denied □	Noted	0	**·
Comments:					
	(6	ÎF)			3/3/22
Signature of	GPTD O	fficial			Date

	New	Flyer of America		_	
Proposer/V	ehicle N	lanufa <b>cturer</b>			
RFP Part	IV	Section Number _	16	Section Title	PASSENGER ACCOMMODATIONS
Describe Re	quest. Ir	nclude appropriate su	pporting	documentation	as outlined in the RFP:
AE Number				90 Attachm	
Specification	on Langu	ıage		Request for A	Approval
Dimensions					quests approval to provide the
		clear width shall be no the doors fully opens		following dim	ensions for the entrance door:
		ors shall leave an ope		Entrance Doo	r Clear Width between door
		<mark>es in height</mark> . Allowable		handles: 33.8	
•		door opening is show th Minimum Door Ope		Entrance Doo 36.8 inches	r Clear Width between door panels:
ligure Irai	isit Coat	on Millimum Door Ope	ernng.		r Height: 77.3" (1963.5 mm)
GPTD Respo	nse:	<u></u>			
Approved	×	Denied	Noted		
Comments	:				
		GF)			3/3/22
Signature o	of GPTD	<u>O'/</u> Official	_		Date
JIBI INCUI C	71 VI ID	will be the second			

_	New	Flyer of America			
Proposer/V	ehicle M	1anufacturer		<del></del>	
RFP Part _	IV	Section Number _	16	Section Title _	PASSENGER ACCOMMODATIONS
Describe Red	west in	iclude annronriate su	nnorting	documentation	as outlined in the RFP:
AE Number	60			90 Attachm	
					<del></del>
Specificatio	_	lage		Request for A	• •
Door Glazing The upper se	_	of both front and rear	doors		uests approval to provide a front full one-piece design glazing on
		o less than 45 percen			hich provides the driver with an
		ening area of each sec		•	wing area. New Flyer has
		e front door shall be gloent of the door openi			on the Ameriview panels to driver's visibility from the seated
of the section				position.	and a tipibility in and the searce
				This is in bound	
					nt to the bus design and was our previous builds.
				, p	
GPTD Respon	se:	**		-	
Approved	<b>X</b>	Denied	Noted		
Comments:					
	_ <del>-</del>				
					0 15 15-
	(6)		<del></del>		3/3/22
Signature of	<b>GPTD</b> O	official			Date

New Flyer of America			
Proposer/Vehicle Manufacturer			
RFP PartIV Section Number16	Section Title PASSENGER ACCOMMODATION		
Describe Request. Include appropriate supporting AE Number67 PDF Page Number	documentation as outlined in the RFP:  OZ Attachment Yes		
Specification Language Deployment or storage of the ramp shall require no more than 5 seconds. The time required to perform other phases of the loading or unloading operation shall not exceed 15 seconds.  The Lift U ramp model#LU11-08-05 meets these requirements.	Request for Approval  New Flyer requests approval to provide New Flyer's patented self contained, modular flip type ramp that is stored in a stainless steel box mounted into the floor of the bus. The non-skid, 3/16 inch thick aluminum ramp platform has a clear width of 32.25 inches, a length of 47.6 inches and is rated at 660 lbs (aprox 300 kg) with a deployment angle ratio of 1:7. The ramp exceeds ADA requirements.  The New Flyer ramp has a deployment or storage time that is 10 seconds, same as your previous build SR-2492  Please see attached SIB 580-001 Wheelchair Ramp New Flyer for additional information.		
GPTD Response:  Approved   Denied □ Noted			
Comments:			
Signature of GPTD Official	3/3/22 Date		

New FI	yer of America			
Proposer/Vehicle Mai	nufacturer			
RFP PartIV	Section Number _	16	Section Title	PASSENGER ACCOMMODATIONS
Describe Request. Incl	ude appropriate su	pporting	documentation	as outlined in the RFP:
AE Number 68	PDF Page Num		91 Attachm	
	_			
<b>Specification Languag</b>	j <b>e</b>		Request for A	pproval
A four-way switch con	•	n the	New Flyer red	uests approval to provide a 5-
driver's compartment				controller located on the driver's
movements of the pas	senger doors.		side console.	The 5-positions are as follows:
			Position #1 (C	LOSED): Entrance door closed; exit
			door disabled	
			•	RONT): Entrance door open; exit
			door disabled	
			exit door enal	RONT REAR): Entrance door open;
				EAR): Entrance door closed; exit
			door enabled.	
			Position #5 (R	EAR FRONT): Entrance door open;
			exit door enab	
			This is the sam	ne as provided in previous builds.
			F	
GPTD Response:		-	<u></u>	
Approved T	Denied 🗆	Noted		
Comments:				
	. ~			
	$\lambda$			212 m
				5/5/22
Signature of GPTD Office	cial	_		Date

	New	Flyer of America		_		
Proposer/V	ehicle N	Manufacturer				
RFP Part _	IV	Section Number _	<u>17</u>	Section Title	DRIVER PROVISIONS	
		nclude appropriate su 9 PDF Page Num		documentation as 96 Attachmen		
				Request for Approval  New Flyer requests approval to remove this requirement. The electric wiper may sustain damage to motor gears or linkage if the wiper arms are manually manipulated.		
GPTD Respo	nse:					
Approved	4	Denied 🗆	Noted			
Comments	:					
		30			3/3/22	
Signature o	f GPTD	Official			Date	

New Flyer o	f America			
Proposer/Vehicle Manufac	turer		<del></del>	
RFP Part IV Secti	ion Number	17	Castina Tista	500 (FD 500) (G10) (G
RFP PartIV Secti	ion Number _	17	Section Title	DRIVER PROVISIONS
Describe Request. Include a	ppropriate su	pporting	documentation as	outlined in the RFP:
	PDF Page Nun		98 Attachment	
Cancification Language			l =======	•
Specification Language Exterior Mirrors			Request for Appr	oval ts approval to provide a spring-
Mirror mounting brackets	shall be break-	away		ion. Break away mirrors have an
style to minimize damage t	o the mirror a	nd		sk of injury if a mirror was to fall
mirror housing in the even	t of a mirror st	ike.	from a bus. Spring	g back mirrors will deflect and
			return to original	position.
			New Flyer does no	ot offer a breakaway mirror
			mounting system.	
			ľ	
		_	 	
GPTD Response:				
Approved Denie	ed 🗆	Noted		
Comments:				
(PA)				
6				3/3/22
Signature of GPTD Official				Date

	New	Flyer of America				
Proposer/Ve	hicle M	anufacturer				
RFP Part _	IV	_ Section Number	r <u>17</u>	Section Title	DRIVER PROVISIONS	
<b>Describe Req</b> AE Number				documentation as  96 Attachmen	outlined in the RFP:	
Specification Language Space shall be provided on the panel for future additions of no less than 5 indicators as the capability of on-board diagnostic systems improves.			as the	Request for Approval  New Flyer requests approval to show all additional visual indicators through the Instrument Panel's Touchscreen LCD as opposed to providing space for future LED indicators.  The Instrument Panel allows the addition of visual indicators without having to worry about physical space restriction.  Please see attached SIB 286-003 LCD Dash Display for more information.		
GPTD Respor		Denied 🗆	Noted			
Comments:						
	(a				3/3/22	
Signature of	GPTD (	official			Date <sup>'</sup>	

	New	Flyer of America			
Proposer/V	ehicle N	1anufacturer		<del></del>	
RFP Part	IV	Section Number	17	Section Title	DRIVER PROVISIONS
Describe Red		nclude appropriate su 1 PDF Page Nun		documentation as 94 Attachmen	
Specification				Request for App	
The lever sh	hall be lo	cated on the street si			sts approval to mount the door
		proximately 16 inches			streetside of the driver's area.
		river's seat centerline, proximately 23 inches			n of this door controller will be
the floor in		-	above	builds.	t was provided in previous
				1	
GPTD Respoi	nse:		<del>-</del>		
Approved	×	Denied $\square$	Noted		
Comments:					
	(G	B			3/3/22
Signature of	GPTD C	Official	_		Date

cle Manufa	cturer			
IV Sec	tion Number _	18	Section Title	WINDOWS
st. Include 73				
door wind	ows, shall be re	equired	minimum of 8000 including operator required on each s	s approval to provide a sq in. of window area, and door windows, shall be side of the standard for 35ft bus per APTA
De	nied □	Noted		
3-				
(F)				3/3/22 Date
	anguage 10,000 squ door wind f the standa	anguage 10,000 square inches of way door windows, shall be refer the standard configuration.  The standard configuration of the standard configuration.	PDF Page Number  anguage 10,000 square inches of window door windows, shall be required fithe standard configuration bus.  Denied  Noted	st. Include appropriate supporting documentation as on 73 PDF Page Number 98 Attachment  anguage 10,000 square inches of window door windows, shall be required in the standard configuration bus.  Request for Approximation in the standard configuration bus. The standard configuration bus recommendations are commendations.

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer		<del></del>	
RFP Part _	IV	Section Number _	18	Section Title	WINDOWS
Describe Rec	quest. Ir	nclude appropriate su	pporting	g documentation as or	utlined in the RFP:
AE Number				99 Attachment	No
Specificatio	n Langu	ıage		Request for Appro	vai
DRIVER'S SI				New Flyer requests	approval to provide an
		ndow glazing material nm <mark>nominal thickness</mark>		Operator's side wir	ndow with tempered glazing to
		ass conforming to the		mater the side win	uows.
		ISI Z26.1 Test Groupin	-		
the Recomn	nended	Practices defined in Sa	AE J673.		
GPTD Respor	ise:				
Approved	Ħ	Denied $\square$	Noted		
Comments:					
	_				
	6				3/3/22
Signature of	GPTD C	fficial			Date

	Nev	Flyer of America			
Proposer/V	ehicle M	Manufacturer			
RFP Part	IV	Section Number	19	Section Title	HEATING VENTILATING AND AIR CONDITIONING
Describe Re	quest. l	nclude appropriate su	pporting	g documentation	as outlined in the RFP:
AE Number	-	6 PDF Page Nun		102 Attachn	
prevent acc	HEATER be applicumulat eat shall	S ed to the front step tro ion of snow, ice, or slu be controlled by a sw	ısh.	heater is defr states this inf	Approval quests approval that our stepwell coster controlled (tech summary formation). The control for defroster he driver's area.
GPTD Respo	nse:				<del>- , , ,</del>
Approved	×	Denied 🗆	Noted		
Comments	:				
		SF)			313/22
Signature o	f GPTD	Official			Date

	New	/ Flyer of America			
Proposer/V	ehicle N	/Janufacturer		<del></del>	
RFP Part	IV	Section Number	19	Section Title	HEATING VENTILATING AND AIR CONDITIONING
Describe Rec	auest. Ir	nclude appropriate su	Joporting	documentation	as outlined in the RFP:
AE Number				100 Attachm	
Specification The District units on the	current	tly uses ThermoKing T	14-M6		Approval quests approval to prvoide Thermo top A/C unit, same as previous build
GPTD Respo	nse:				
Approved	×	Denied □	Noted		
Comments:					
	(	(GP)			3/3/22
Signature of	f GPTD (	Official			Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer		_	
RFP Part _	IV _	Section Number _	20	Section Title	SIGNAGE AND COMMUNICATION
Describe Rec	=			documentation	n as outlined in the RFP: mentNo
be illuminat Requested" Requested" one or both	uested' ed whe signal s messag passen all be vi	rage The message in red lette In the passenger "Stop In the passenger "Stop In the shall remain visible In the shall remain visible In the seated driver is the seated driver.  In the seated driver is the seated driver.	o ne "Stop until . <mark>The</mark>	Requested" s passengers a	Approval qeusts approval to provide a "Stop ign that is visible to all seated and a stop request indicator light are instrument panel for the driver.
GPTD Responsible Approved		Denied □	Noted	_	
Comments:					
Signature of	G GPTD C	Official			3/3/22 Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer			
RFP Part _	IV	Section Number _	20	Section Title	SIGNAGE AND COMMUNICATION
<b>Describe Rec</b> AE Number	•			documentation 102 Attachn	n as outlined in the RFP:
driver's bar ten separat four inches	plays hall be r rier for a e passer wide an rmation	made on the rear of the a schedule holder to s ager timetables that a d nine inches high. The Products Model # OB	support are sized ne	Information I available and manufacture	Approval could like to advise that the Transit Products OBIC T 10P 2L is no longer requests approval to supply or a similar on-board information Flyer requets approval
GPTD Respo				<u></u>	
Approved		Denied 🗖	Noted	M	
Comments:	e t	his item	fro	m spe	citication.
		36			3/3/22
Signature of	f GPTD C	Official			Date

	New	Flyer of America			
Proposer/Ve	ehicle M	anufacturer		_	
RFP Part _	IV	_ Section Number	14	_ Section Title	INTERIOR PANELS AND FINISHES
Describe Req AE Number	uest. In	* * * *		documentation 85 Attachn	as outlined in the RFP: nentNo
over-center	s shall b <mark>springs,</mark>	age e hinged with gas prowhere practical, to lead to the chanic's way.	-	interior acces requirement. not hinged or springs. They The front who	Approval quests approval to provide two s doors that do not meet this The rear bulkhead access panels are held open with gas props or are retained with captive hardware. eelchair mechanism access door is of held open with a gas prop or
GPTD Respor  Approved		Denied □	Noted	M	
Comments:	_			V	
Comments.	(T)				7/2/00
Signature of	COTTO				5/5/5d

	New	Flyer of America			
Proposer/V	ehicle M	1anufacturer	· · · ·	-	
RFP Part _	ĮV	Section Number _	14	Section Title _	INTERIOR PANELS AND FINISHES
Describe Rec	juest. In	nclude appropriate su	pporting	documentation	as outlined in the RFP:
AE Number	5			84 Attachm	
Specificatio	n Langu	iage		Request for A	Approval
•		be provided to allow:	_	•	uests approval to provide New
		ited behind light pane re light fixture shall be		-	e (TCB) interior lighting that has easily removable panels which are
necessary, e	iic ciidii	e light fixture shall be	iiiigeu.	-	by filler strips and snap into the light
				panel extrusion	on.
				Please see att	ached SIB 277-001 LED Lighting for
				additional info	ormation.
GPTD Respon	nse:			. •	
Approved	¥	Denied   □	Noted		
Comments:					
(	(6F)				3/3/22
Signature of	GPTD (	Official			Date

	New I	lyer of America			
Proposer/Veh	icle Ma	anufacturer			
RFP Part	IV	Section Number	14	Section Title _	INTERIOR PANELS AND FINISHES
Describe Reque	est. Inc	lude appropriate su PDF Page Nun		documentation 85 Attachm	as outlined in the RFP:
compartment shall prevent of the bus interior	for the s shall entry o or. The ne too	age door actuator be secured with lock if mechanism lubrica locks shall be standa is required to open	nt into ardized	following inte are secured w locking): Entrance doo Destination Si Driver's locke Wheelchair m	rivests approval to provide the rior access panels and doors that rith short wing quad latches (non-rimech box ign compartment
GPTD Respons Approved		Denied	Noted	_	
Comments:					
	(G				3/3/22
Signature of G	PTD C	fficial			Date

	New	Flyer of America			
Proposer/Ve	ehicle M	lanufacturer		_	
RFP Part _	IV	_ Section Number _	14	Section Title	INTERIOR PANELS AND FINISHES
Describe Rea	uest. In	clude appropriate su	nnorting	documentation	as outlined in the RFP:
AE Number	62			85 Attachn	
Specification	_	_		Request for A	
		all be flush with the f		· ·	quests approval for a driveshaft
		with stainless steel,		•	that is manufactured completely out
		ptable to the District om coming loose.	t, to		ne and is not edge bound with trim.
bieseur me	euges II	om coming loose.		_	s a recessed area which is covered in rial to match the bus interior. The
				_	rial in this area is secured using
				_	nesive and is edge sealed using
				approved sea	lant.
				1	
GPTD Respon	se:	<del></del>		<del></del>	
•	Λ	<b>-</b>	_	_	
Approved	N	Denied 🛚	Noted		
Comments:					
		_			
	6	( )			
	(lot				3/3/27
Signature of	GPTD O	fficial			Date

New Flyer of America	
Proposer/Vehicle Manufacturer	_
RFP PartIV Section Number16	Section Title PASSENGER ACCOMMODATIONS
Describe Request. Include appropriate supporting AE Number 64 PDF Page Number	documentation as outlined in the RFP:  B5 AttachmentYes
Specification Language Hip-to-knee room, measured from the front of one seat back cushion horizontally across the highest part of the seat cushion to the seat or panel immediately in front, shall be no less than 26.5 inches. At all seating positions in paired transverse seats immediately behind other seating positions hip-to-knee room shall be no less than 28 inches.	Request for Approval  New Flyer requests approval to provide the hipto-knee measurements shown on seat layouts.  Per this layout, the hip-to-knee measurements range between 27.15" and 27.26" on the lower deck and between 26.51" and 30.76" on the upper deck. However, New Flyer is able to provide foot room that measures down to 10" at the curbside seat location immediately aft of the exit door.  This is due to the structure at this location and is the same as provided in previous builds.  Please see attached DWG 445309.
GPTD Response:	n
Approved Denied  Noted  Comments:	L Company
Comments.	
Signature of GPTD Official	3/3/22 Date
Signature of Grid Official	Date

New Flyer of America	
Proposer/Vehicle Manufacturer	_
RFP PartIV Section Number14	Section Title INTERIOR PANELS AND FINISHES
Describe Request. Include appropriate supporting AE Number 63 PDF Page Number  Specification Language	documentation as outlined in the RFP:  84 Attachment No  Request for Approval
Interior lights shall be individually dimmable.	New Flyer requests approval to provide interior lights that are dimmable through PLC Programming. The light intensity settings are preset and it cannot be adjusted manually by the operator.  This is the same as provided in previous builds.
GPTD Response:  Approved □ Denied □ Noted  Comments:	
Lights must be dimme Without use of comp	able by manually adjusting uter programming,
Signature of GPTD Official	3 <i>3</i> /22

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer		<del></del>	
RFP Part _	IV	Section Number	14	Section Title	INTERIOR PANELS AND FINISHES
Describe Rec	juest. ir			documentation 81 Attachm	as outlined in the RFP: nentNo
ceiling and s	er shall ex shall fit panels t	tend from the floor to the bus side windows to prevent passengers or the driver's perso	s, wall, s from	barrier is form	quests approval that the driver's ned by the front side of the SDS a extends from the top of the
GPTD Respon	nse:	Denied □	Noted		
Comments:					
	(	GF)			3/3/22
Signature of	GPTD (	Official			Date

Proposer/Vehicle Manufacturer  RFP PartIV Section Number14 Section TitleINTERIOR PANELS AND FINIS  Describe Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number55 PDF Page Number81 AttachmentNo  Specification Language	
Describe Request. Include appropriate supporting documentation as outlined in the RFP:  AE Number55	
Specification Language Driver Barrier A barrier or bulkhead between the driver and the Barrier is formed by the front side of the SDS	HES
Driver Barrier  A barrier or bulkhead between the driver and the barrier is formed by the front side of the SDS	
provided. The barrier shall minimize glare and reflections in the windshield directly in front of the barrier from interior lighting during night operation.	S
GPTD Response:  Approved   Denied □ Noted □	
Comments:	
Signature of GPTD Official Date	

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer			
RFP Part _	IV	Section Number _	14	Section Title	INTERIOR PANELS AND FINISHES
Describe Rec	•		• • •	documentation 82 Attachm	as outlined in the RFP:
lower daylig those forwa	nels inels sha ght oper ard of tr to a leve	uage all extend no higher the hing of the side windo ansverse seats shall ele between 1½ and 1 i	ws and xtend	•	juests approval to provide a rear odesty panel which extends up to
GPTD Responsible Approved		Denied □	Noted		
Comments:	•				
Signature of	GPTD (	Official			3/3/22 Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP PartIV Section Number14	Section Title INTERIOR PANELS AND FINISHES
Describe Request. Include appropriate supporting 6 AE Number 57 PDF Page Number 8	documentation as outlined in the RFP:  82 Attachment No
Specification Language Storage Box An enclosed driver storage compartment shall be provided with a positive latching door and/or lock, located on top of the curb-side wheelhousing. The minimum size for compartment shall be 5000 cubic inches.	Request for Approval  New Flyer requests approval to provide Storage box above the seated driver with or without storage box behind the seated driver. Details of the storage box options are as follows:  1 - Storage box above the seated driver, standard on all buses: 12"H x 13-19"L x 9W (~1728 in.3)  2 - Storage box behind the seated driver: 12"H x 19"L x 7"W (~1596 in.3)  Space in driver's area does not allow for anything larger. Please note that a keyed lock can only be provided on Option #2.  Please confirm the preference on storage box option.
GPTD Response:	
Approved □ Denied □ Noted	
Metro, requests a storage wheelhousing in addition head-G	e compartment on curbside in to glove box above drive
	313172
Signature of GPTD Official	Date

	New	Flyer of America			
Proposer/V	ehicle M	1anufacturer		_	
RFP Part _	IV	Section Number _	13	Section Title _	EXTERIOR PANELS AND FINISHES
Describe Rec	juest. In			documentation 80 Attachm	as outlined in the RFP: nentYes
lower daylig	GHTING ay be p tht oper	_	nd shall	header lights lights meet th less than 1 for outward from the same as p	Approval quests approval to provide door manufactured by Smartrend. These ne illumination requirement of no not candle for a distance of 3 feet ne the lowest step tread edge and are provided on previous Xcelsior builds.  Eached DWG 426010.
GPTD Respo		Denied 🗆	Noted		
Comments:	• •				
Signature o	(G)	Official			3/3/22 Date

	New	Flyer of America			
Proposer/V	ehicle N	1anufacturer		<del></del>	
RFP Part _	IV	Section Number _	13	Section Title	EXTERIOR PANELS AND FINISHES
Describe Rec	west. In	nclude annropriate su	nporting	documentation	as outlined in the RFP:
AE Number	5:			80 Attachm	
		<del></del>			
Specificatio EXTERIOR LI	_	<del>-</del>		Request for A	Approval quests approval to provide marker
		e roof and sides (dire	ctionals)	,	lights along the roofline which are
		e protective shields o	-		hey are not flush and do not have
		e to protect the lens	_		elds. These lights are low profile
automatic b		iding daily washing by ner.	an	washers and	clude breakage by tree limbs, or bus
				, and a second	
GPTD Respor	nse:				
Approved	₩	Denied	Noted		
Approved	<b>/</b> *	Defiled L	Notea		
Comments:					
		9			
	(6t	<del>-</del> )			3/3/22
Signature of	GPTD C	Official			Date

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP Part IV Section Number 14	Section Title INTERIOR PANELS AND FINISHES
Describe Request. Include appropriate supporting AE Number 54 PDF Page Number	documentation as outlined in the RFP:  80 Attachment No
Specification Language INTERIOR PANELS Interior side trim panels below the windows shall be textured stainless steel. Above windows and driver's barrier shall be plastic, or melamine-type material.	
GPTD Response:  Approved □ Denied Noted	
Comments:	_
60	717110
Signature of GPTD Official	3/3/22 Date

New Flyer of America			
Proposer/Vehicle Manufacturer		_	
RFP PartIV Section Number	13	Section Title	EXTERIOR PANELS AND FINISHES
	_ <b>-</b>		
AE Number 53 PDF Page Num	-	documentation 78 Attachm	
AL Number FDF Fage Num	DEI	76 Attacilii	<u> 125 </u>
Specification Language		Request for A	
The inside surface of the battery compart			juests approval to provide a battery
access door shall be electrically insulated, required, to prevent the battery terminals		rubber pad.	hat is electrically insulated by a
shorting on the door if the door is damage		Tubber pau.	
accident or if a battery comes loose.		covered with further protect Also note that of polyethyler resistance.	nat the battery terminals are also rubber terminal boots to provide ction from shorting on the door. It the battery compartment is made ne, which, has high electrical eached SIB 260-001 Battery System rmation.
GPTD Response:			
Approved ☐ Denied ☐	Noted		
Comments:			
(GF)			3/3/22
Signature of GPTD Official	_		Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer	_		
RFP Part _	IV	Section Number _	11	Section Title	GENERAL
Describe Red	-	clude appropriate su PDF Page Num	• • •	documentation as ou	Itlined in the RFP: No
the floor ar serviceable used for the the same th fasteners sl	I screws Id all floo from on Ifloor fa Ickness In all be se	shall not be used to represent the shall be not be side only. Tapping pasteners, shall be noted as a standard nut and ecured and protected rvice life of the bus.	<mark>plates, if</mark> ess than I all floor	tapping plates that 1/4" in thickness (le thinner tapping pla strength without ac weight to the bus.	rapproval to provide floor measure between 1/8" to ess than a standard nut). The tes provide the required dding unnecessary extra provided in previous builds.
GPTD Respo	la.	Denied □	Noted		
Comments:	•				
	6				
Signature o	f GPTD (	Official			Date

	New	Flyer of America				
Proposer/V	ehicle N	/lanufacturer				
RFP Part _	IV	Section Number _	11	Section Title	GENERAL	
Describe Request. Include appropriate supporting AE Number 43 PDF Page Number  Specification Language FLOOR Where the floor meets the walls of the bus, the surface edges shall be blended with a circular section of radius not less than 1 inch and a molding or cove shall prevent debris accumulation between the floor and wheel housings.						
				provided on previou	he bus design and was us builds.	
GPTD Respoi	rse:					
Approved	×	Denied $\square$	Noted			
Comments:						
Signature of	(G)	Official			3/3/22 Date	

New Flyer of America	
Proposer/Vehicle Manufacturer	
RFP PartIV Section Number13	Section Title EXTERIOR PANELS AND FINISHES
_ , , _ , , , , , , , , , , , , , , , ,	and a summation of outlined in the DFD.
Describe Request. Include appropriate supporting AE Number 47 PDF Page Number	
AE Number 47 PDF Page Number	77 Attachment 140
Specification Language	Request for Approval
SERVICE COMPARTMENTS AND ACCESS DOORS	New Flyer requests approval to provide square
Access doors larger in area than 100 square	key locks for all large exterior access doors. We
inches shall be equipped with latches. The latch	es can provide slam latches on the engine door, side console and fusebox doors but there is
shall be standardized and shall be openable without the use of a key or tool.	insufficient space on the radiator, defroster and
William and and an array of the second	battery doors to mount slam latches.
	<u> </u>
GPTD Response:	
Approved Denied D Note	d 🗆
Comments:	
	0:= :=0
((oF)	`3/3/22
Signature of GPTD Official	Date

	New	Flyer of America				
Proposer/Ve	ehicle M	lanufacturer		<del></del>		
RFP Part _	IV	Section Number _	13	Section Title _	EXTERIOR PANELS AND FINISHES	
<b>Describe Req</b> AE Number	uest. In			documentation 78 Attachm	as outlined in the RFP:	
front and re	all provi ar of the	ide impact protection e bus with the top of ., ±2 in., above the gr	the	bumper heigh center line of edges of 27 in at ride height. to fit the esthe been impact t	pproval uests approval to provide a front t of 24 inches (610 mm) at the the bus and a height at the outer ches (686 mm) from the street lev The proposed bumper is designed etic look of the Xcelsior, and has ested in accordance with the APTA Procurement Guidelines.	
GPTD Respon Approved	se:	Denied	Noted			_
Comments:	<b>,</b>			_		
Signature of	GPTD O	fficial			3/3/22 Date	

	New	Flyer of America		_		
Proposer/V	ehicle N	1anufacturer				
RFP Part _	IV	Section Number _	11	Section Title	GENERAL	
				documentation as ou	ntlined in the RFP: No	
Describe Request. Include appropriate supporting of AE Number 45 PDF Page Number 7  Specification Language Construction  Wheel housings shall be constructed of 1/8" stainless steel. Wheel housings, as installed and trimmed, shall withstand impacts of a 2-inch steel ball with at least 200 foot-pounds of energy without penetration.			<mark>led and</mark> inch steel	Request for Approval New Flyer requests approval to provide the front center and rear wheelhouse tubs constructed of 18-gauge 201 -type stainless steel per ASTM A240.  The vertical panels on the front tubs are 16ga. stainless steel. The vertical panels on the center tubs are 7ga. stainless steel. The vertical panels on the rear tubs 11ga. stainless steel.  The different gauge material is used to accommodate the welding process and to avoid "oil canning".		
GPTD Respo		Denied □	Noted			
Comments	•					
Signature o	GF GPFB	Officia <b>l</b>			3/3/22 Date	

	<u>N</u> ew	Flyer of America			
Proposer/Ve	ehicle M	lanufacturer		<del></del>	
RFP Part _	IV	Section Number _	13	Section Title _	EXTERIOR PANELS AND FINISHES
Describe Rea	uest. In	clude appropriate su	pporting	documentation	as outlined in the RFP:
AE Number	46			76 Attachm	
Considientie	n I ana			 	
Specification REPAIR AND	_	_		Request for A	pproval uests approval to remove the
		w the rubrail shall be	divided		or rubrails. Our Xcelsior platform
		e repairable		does not utiliz	
	-	above <mark>the rubrail</mark> , wh			
be repairable		e lower daylight openi Ilaceable	ing shaii		
•					
				1	
GPTD Respon	se:			<del></del> :	
Approved I		Denied $\square$	Noted	×	
Comments:	ils	not re	quira	d.	
			•		
	6				3/3/22
Signature of	GPTD O	fficial	_		Date

	New	Flyer of America				
Proposer/V	ehicle N	Manufacturer		_		
RFP Part	IV	Section Number _	11	Section Title	GENERAL	
Describe Red AE Number				documentation as o		
Specification Language JACKING Jacking pads located on the axle or suspension near the wheels shall permit easy and safe jacking with the flat tire or dual set on a 6-inchhigh run-up block not wider than a single tire.				Request for Approval  New Flyer requests approval to provide jacking pads that are located on the structure, not on the axles or suspension.  Please see attached DWGs 354153 and 352240 for your review.		
GPTD Respo Approved	d	Denied □	Noted			
Comments:						
	l.	a			3/3/22	
Signature o	f GPTD (	Official			Date	

	New	Flyer of America			
Proposer/V	ehicle N	1anufacturer			
RFP Part _	IV	Section Number _	11	_ Section Title	GENERAL
<b>Describe Rec</b> AE Number	•			documentation as ou 73 Attachment	itlined in the RFP: No
supporting static load of	RTHINES nels belo structur of 2,000 anywher	S ow the rubrail and the al members shall with pounds applied perpe e below the rubrail by	nstand a endicular	requirement for rul	approval to remove the
GPTD Respon	nco.		···-		
Approved		Denied 🛘	Noted	¥	
Comments: Rubra	ails remo	not real	quin	ed. Crashu met.	vorthiness
	<u>(C</u>	(A)			3/3/22
Signature of	f GPTD (	Official	_		Date

New Flyer of Americ	a					
Proposer/Vehicle Manufacturer						
RFP Part IV Section Num	ber <u>10</u>	Section Title	PNEUMATIC SYSTEM			
Describe Request. Include appropri	ate supportin	ng documentation as ou	ıtlined in the RFP:			
	e Number	72 Attachment	Yes			
Specification Language	Request for	Approval				
AIR SYSTEM DRYER	New Flyer re	equests approval to pro	vide a Haldex Gemini MDxTM.			
An air dryer shall prevent	This is comp	osed of dual H <mark>alde</mark> x DR	Yest® air dryers working in			
accumulation of moisture and oil	1 -		sep® Contaminant separator			
in the air system. The air dryer	to create a s	single superior air treatr	nent system.			
system shall include a						
replaceable desiccant bed,	<u> </u>	separator provides a p	•			
electrically heated drain, and activation device.		•	aminants and then expells			
activation device.			valve. This occurs prior to air			
	_	dryers, reducing the ar	nount of contaminants  Inding desiccant and purge and			
	•	• •	through dual Haldex DRYest®			
			e the increased flow of the			
		•	compressor. The DRYest®			
		re 5 stage MTC+® desice	-			
	_	remainder of the conta	<del>-</del> .,			
	majority of t	the moisture content, re	esulting in very low dew point			
	air exiting th	ne dryer package. Each o	dryer is also equipped with a			
	purge valve	to automatically expel t	he moisture and			
	contaminants collected and to regenerate the desiccant at each					
	-	• •	heater to ensure proper			
	operation in	sub-freezing temperati	ures			
	Please see a	ttached SIB 246-060-X-	Gemini MDx (Air Dryer) for			
	additional in	formation				
GPTD Response:						
Approved ☐ Denied □	Noted					
Comments:						
(1-87)			2/22</th			
Signature of GPTD Official			Date			

	New	Flyer of America			
Proposer/V	ehicle N	Manufacturer			
RFP Part _	IV	Section Number _	10	Section Title	PNEUMATIC SYSTEM
Describe Rec		nclude appropriate su 9 PDF Page Nun		documentation as 71 Attachmen	
	necessa nall be f	iry to maintain system lexible Teflon hose wit		air lines which and come equipped of this is the same	ests approval to provide flexible re manufactured by Manuli and with plated steel fittings.  as provided on previous builds ost recent SR-2492.
GPTD Respo	nse:			<del></del>	
Approved	Ä	Denied $\square$	Noted		
Comments:	;				
	(C	(A)			3/3/22
Signature o	f GPTD	Official			Date

New Flyer of America			
Proposer/Vehicle Manufacturer			
RFP Part IV Section Number 10	Section Title	PNEUMATIC SYSTEM	
Describe Request. Include appropriate supporting AE Number37 PDF Page Number	documentation as 71 Attachmen		
Specification Language The air system shall be protected by a pressure relief valve set at 150 psi and shall be equipped with check valve and pressure protection valves to assure partial operation in case of line failures.	Request for Approval  New Flyer requests approval to provide the following pressure relief valves and respective settings:		
GPTD Response:  Approved   Denied □ Noted			
Comments:			
(GE)		3/3/22	
Signature of GPTD Official		Date	

New	/ Flyer of America			
Proposer/Vehicle N	/lanufacturer			
RFP PartIV	Section Number _	10	Section Title	PNEUMATIC SYSTEM
Describe Request. (r	nclude appropriate su	nporting	documentation as	outlined in the REP:
AE Number3			71 Attachment	
Specification Langu Nylon tubing shall I	Jage De installed in accorda	ınce with	Request for App	roval sts approval to add blue nylon
the following color	-coding standards: primary brakes and su	ınnly	tubing for the sus	
<ul> <li>Red: Indicates sed</li> </ul>	condary brakes.	рріў.		ies suspension air lines
<ul> <li>Brown: Indicates</li> <li>Yellow: Indicates</li> <li>Black: Indicates a</li> </ul>	compressor governor	signal.		in service troubleshooting and ntenance activities.
· black. Mulcates a	ccessories.			
GPTD Response:				
Approved 💆	Denied 🗆	Noted		
Comments:				
(6	Ā			3/3/22
Signature of GPTD C	Official			Date

	New	Flyer of America				
Proposer/V	ehicle N	/lanufacturer				
RFP Part _	IV	Section Number	07	_ Section Title	SUSPENSION	
				documentation as o	utlined in the RFP: Yes	
				Request for Approval New Flyer requests approval to provide a front axle and suspension installation that consists of a MAN VOK-07-F low floor axle complete with wheel hub assembly, brake caliper & brake disc assembly, center link assembly, tie rod arms and a steering arm.  The axle assembly also includes ABS sensor and pulse generating wheel. The brake chambers are mounted directly on the disc brake caliper assembly.  The MAN front axle is designed with a grease- packed unitized bearing.  This is inherent to the bus design and was provided on previous builds.  Please see attached SIB 203-002 Front Axle and Suspension.		
GPTD Respo		Denied □	Noted			
Comments	•					
	62	B			3/3/22	
Signature o	t GPTD	Official			Date	

Nev	V Flyer of America			
Proposer/Vehicle I	Manufacturer	_		
RFP PartIV	Section Number _	08	Section Title	STEERING
Describe Request. I	nclude appropriate su	pporting	documentation as ou	tlined in the RFP:
	6 PDF Page Nun		70 Attachment	No
Specification Lang	uage		Request for Approx	<i>r</i> al
	ne brake pedal control r function of the bus	shall be		approval to provide a force to
-	nd shall not exceed 50	pounds	•	pedal control which is an nction of the bus deceleration
at a point 7 inches pedal to achieve m	above the heel point o	of the		not exceed 70 pounds at a
pedal to achieve hi	axiinuiii bi akiiig.		to achieve maximur	e the heel point of the pedal m braking. Adjusting braking comise FMVSS 121 and
			therefore is not ava	nable.
			This is the same as a	provided in previous builds.
GPTD Response:				
Approved 💢	Denied $\square$	Noted		
Comments:				
(GP	)			3/3/22
Signature of GPTD (	Official	_		Date

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer			
RFP Part _	iV_	Section Number _	07	Section Title	SUSPENSION
escribe Rec AE Number	-	nclude appropriate su 3 PDF Page Nun		documentation as o	utlined in the RFP: No
front door, shall be pro	ght mo minimu vided tl	unted near the curbsion 3" diameter, ambe nat will blink when kno l and throughout oper	r lens eel		s approval to provide a ch is 2.5 inches in diameter.
PTD Respo	nse:				
Approved	Ķ	Denied 🗆	Noted		
Comments:					
	6				3/3/22
Signature o	f GPTD	Official			Date

	New	Flyer of America			
Proposer/V	ehicle N	lanufacturer			
RFP Part _	IV	_ Section Number _	07	Section Title	SUSPENSION
<b>Describe Rec</b> AE Number	juest. In	clude appropriate su PDF Page Num	_	documentation as o	utlined in the RFP: No
over-raise so the bus 3 in- system will a regular ride than 30 second	em shal ystem d ches wh automa height a onds.	l have a manually ope esigned to raise the fr en activated. After ac tically "bleed out" bac after a period of not m	ont of tivation k to	raise/high ride fea advanced smart le intelligent kneeling feature will raise to normal ride height inclines. This would inches, same as pro-	s approval to provide the over ture with our Smartrider Lite veling system that uses g on the front axle. This he front axle 2 inches above for clearing curbs and steep d raise the front door to 16 evious build SR-2492.
GPTD Respor	. 1	Denied □	Noted		
Comments:	/ ·				
	GE		_		3/3/22
Signature of		micial			Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer			
RFP Part	IV	Section Number _	06	Section Title	DRIVETRAIN
Describe Rec		clude appropriate su PDF Page Nur		documentation as c	outlined in the RFP:No
in the powe	ystems he hydra er steerii on-boai	aulic system, excludir ng system, shall indica rd diagnostic panel co	ate on	requirement from to hydraulic coolin provided.	ts approval to remove this the specification as it applies and systems which are no longer the Xcelsior Bus Design.
GPTD Respon		Denied $\Box$	Noted		
Comments:					
	6	F			3/3/22
Signature of	GPTD C	Official			Date

	New	Flyer of America			
Proposer/V	ehicle N	/lanufacturer			
RFP Part	IV	Section Number _	06	Section Title	DRIVETRAIN
				g documentation as o	
AE Number	2	3 PDF Page Nur	nber	64 Attachment	No
Specification	n Langu	uage		Request for Appro	
Service		is a grain of			s approval to provide both
-		radiator filler caps sha		_	ator caps that are tethered not red caps are a Cummins
pressure or		neck and closed with	spring	requirement.	eu caps are a cummins
pressure or	positive	e locks.		requirement.	
GPTD Respo	nse:				· · ·
Approved	<b>X</b>	Denied $\square$	Noted		
Comments					
	(1	(2P)			3/3/22
Signature o	f GPTD	Official			Date
0					

	New F	lyer of America			
Proposer/Vel	nicle Ma	nufacturer			
RFP Part	IV	Section Number	06	Section Title	DRIVETRAIN
D. 9 D		l 1			alta de al pen
AE Number	iest. inc 25	i <b>uge appropriat</b> e sup PDF Page Num	•	ng documentation as ou 65 Attachment	No
AL RUIIDEI	23	FDF Fage Nulli	)EI _	Attachment _	140
brass tubing a be eliminated	ng shall and, if p d. Neces ber type	ge be stainless steel or racticable, hoses sha sary hoses shall be e that is impervious to	0	flexible synthetic rubber end fittings manufacture Industries and Aeroquip from oil-resistant synthe single high-tensile steel for their high ozone, we properties. All hose asse with two-piece fittings.  Equator 1 (EQ1) / Equator GH100, to accommodate required. Highly durable stainless steel wire braid Range -73°C to + 260°C.  Our size 8 fuel lines have the proposed hoses med parameter requirements extended temperature requirements.	Manuli hoses are constructed etic rubber and reinforced with braid. Manuli hoses are known ather and heat resistant emblies are skived and crimped for 2 (EQ2) / 2807 PTFE / the different ratings as extruded PTFE tube with 1. Operating temperature Meets SAE 100R14A.  SAE/JIC 37° fittings.  Set or exceed the operating same in the manuli hoses are rated for ange.
			h 1	This is inherent to the bu previous builds.	us design and was provided on
GPTD Respons	e:			·	
Approved	4	Denied	Note	d 🛘	
Comments:					
	6	<del>P</del>	_		3/3/22
Signature of (	SPTD Of	ficial			Date

	New	Flyer of Ame	erica		_	
Proposer/V	ehicle N	/lanufacturer				
RFP Part _	ΙV	Section N	umber _	07	Section Title	SUSPENSION
Soceribo Pae	west l	nclude annro	nriata su	nnorting	documentation as	outlined in the RFP:
AE Number			Page Nun		69 Attachment	
					Degreet for Appr	rougl
Specification				2	Request for Appl	sts approval to use a flexible
		be located fo				ease fittings are not all
-		all be accessib				w a rigid tube end grease gun to
_	_	in without fle the bus on a l		ie ena	be used.	w a rigid tube end grease gun to
					flexible hose end	cle design requires the use of a to access certain fittings. This is epted maintenance practice in
					the industry.	
 GPTD Respo	nse:					
Approved	$\forall$	Denied		Noted		
	/					
Comments	:					
						5/2/00
	((	2)				3/3/22
Signature o	of GPTD	Official				Date

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer		_	
RFP Part _	IV	Section Number _	06_	Section Title	DRIVETRAIN
escribe Rec	uest. In	clude appropriate su	pporting	documentation as o	utlined in the RED:
AE Number				67 Attachment	
Specificatio	_	<del>-</del>		Request for Appro	
		accommodate a stand hall automatically sho			s approval to provide twisted
		sentially full. The DEF		-	455, same as previous build
		cap and located curb			
				1	
	_				
iPTD Respoi	nse:				
Approved	M	Denied $\square$	Noted		
Comments:					
	,	$\Rightarrow$			
		BD)			3/3/22
Signature of	GPTD O	fficial			Date

	New	Flyer of America			
Proposer/V	ehicle N	fanufacturer			
RFP Part _	IV	Section Number _	06	Section Title	DRIVETRAIN
Describe Rec	uest. Ir	nclude appropriate su	pportin	g documentation as o	utlined in the RFP:
AE Number	2	7 PDF Page Num	nber	66 Attachment	Yes
Specification FUEL SYSTE The capacity minimum or	M y of the	fuel tank(s) shall be a		sized Cross-linked with a capacity of pressure filled.	s approval to provide a suitably polyethylene diesel fuel tank 100 useable US gallons, ed SIB 241-003 Polyethylene
GPTD Respon	. /	Denied □	Noted	0	
Approved		Defiled L	NOLEU	_	
Comments:					
	(G+				3/3/22
Signature of	f GPTD	Official			Date

	New	Flyer of America			
Proposer/Ve	hicle M	anufacturer			
RFP Part _	IV	_ Section Number _	06	Section Title	DRIVETRAIN
Describe Req AE Number	uest. In			documentation as of 64 Attachment	utlined in the RFP:
Specification A guarded of driver's com	n/off sw	<mark>/itch will be mounte</mark> d	in <b>the</b>		s approval to mount the vitch on the driver's sawtooth
	9			This is the same as	provided in previous builds.
GPTD Respon	se:			<u> </u>	
Approved	×	Denied $\square$	Noted		
Comments:					
	(6)	P			3/3/22
Signature of	GPTD C	official			Date

	New	Flyer of America			
Proposer/V	ehicle N	Manufacturer			
RFP Part _	IV	Section Number _	06	Section Title	DRIVETRAIN
<b>Describe Rec</b> AE Number	_			documentation as o	utlined in the RFP:
shall be equivalves shall	STEMS ts in the ipped w be fitte ss it car	e water-based cooling vith drain cocks. Air ve d at high points in the n be demonstrated the	ent cooling	that is equipped w points have a basic	s approval to provide a radiator ith a drain cock. All other lower
GPTD Respon			Noted		
Comments:	<b>,</b>	Deffied 🗅	Noted	L	
Signature of	(C)	Official			3/3/22 Date

	New	Flyer of America			
Proposer/V	ehicle N	ianufacturer		<del>_</del>	
RFP Part _	IV_	Section Number	05	Section Title	VEHICLE PERFORMANCE
Describe Req AE Number	uest. In			documentation as	s outlined in the RFP: nt <u>Yes</u>
below and s smooth to p off-balance.	ON ation sha hall be s revent to Acceler	all meet the requirer sufficiently gradual a chrowing standing paration measurement e accelerator is depr	nd Issengers Shall	Turbo, that while been met, Voith vehicle perform component influ- are beyond their	d like to advise, on behalf of Voith le acceleration requirements have n offers no guaranties as to actual ance. This will vary due to uences and characteristics, which
GPTD Respon	ise:	<del> </del>			
Approved		Denied $\square$	Noted	×	
Comments:					
Signature of	61	fficial			3/3/22

	New	Flyer of America			
Proposer/V	ehicle N	Manufacturer		_	
RFP Part _	ĮV	Section Number _	05	Section Title	VEHICLE PERFORMANCE
<b>Describe Red</b> AE Number		nclude appropriate su 7 PDF Page Nun		documentation as	
with a dry of pavement a operating. To maintain	require commer at GVWI The pow	ments shall be met on cial asphalt or concret R with all accessories ver plant shall enable to d of 40 mph on a 2½ p n a 16 percent grade.	te the bus	Turbo, that whi been met, Voith vehicle perform component influ are beyond thei	d like to advise, on behalf of Voith le gradability requirements have n offers no guaranties as to actual nance. This will vary due to uences and characteristics, which
GPTD Respo		Denied □	Noted	Ж	
Comments					
Signature o	f GPTD	Official			3/3/22 Date
Jigi latul e 0	I GE ID	Official Control			Dutt

	New	Flyer of America			
Proposer/V	ehicle M	lanufacturer		<del></del>	
RFP Part	IV	Section Number _	06	Section Title	DRIVETRAIN
Describe Red AE Number				documentation as of 61 Attachment	utlined in the RFP: Yes
an ambient as coolant a system shal between th	system capacity and sea I I be seal e radiato irculatio	in new condition sha y of at least 110° F wi evel operation. Cooli ed around the perim or and charge air cool n; side-by-side (tande	th water ng eter ler to		s approval to provide EMP Gen which is a stacked radiator/CAC ide-by-side.
GPTD Respon		Denied 🛘	Noted		
Comments:					
Signature of	G F GPTD C	Difficial			3/3/22 Date

	New	Flyer of America			
Proposer/Ve	hicle N	/lanufacturer			
RFP Part _	IV	Section Number _	06	Section Title	DRIVETRAIN
Describe Rea	uest. Ir	nclude appropriate su	pporting	documentation as or	utlined in the RFP:
AE Number	2			62 Attachment	No
Specification	n Langu	ıage		Request for Appro	val
	-	sh button type valve t	-		s approval for pressure to be
-		vacuum in the cooling ith both it and the wa		· ·	and for coolant to be filled via ry tank, not the surge tank
•		ches above the ground			e the lever is located). The fill
	e acces	sible through the same	e access	location is approxi	mately 60" above the ground.
door.					
				1	
GPTD Respon	se:				
Approved	×	Denied 🛘	Noted		
Comments:					
	6				212/00
Signature of		official			3/3/2A
NOD STILL AT	INPITE (	micial			uare

	Nev	Flyer of America			
Proposer/V	ehicle M	Vanufacturer		_	
RFP Part _	IV	Section Number _	06	Section Title	DRIVETRAIN
Describe Rec AE Number		nclude appropriate su 1 PDF Page Nun			
shall be of o	r, and clurable	uage harge air cooler if inte corrosion-resistant m polted-on removable t	etal	aluminum bar/plat	s approval to provide te heat exchangers with minum tanks welded onto the
GPTD Respoi	_	Denied	Noted	0	
Comments:					
Signature of	(C)	Official	_		3/3/22 Date

	New	/ Flyer of America			
Proposer/V	ehicle N	Manufacturer			
RFP Part _	IV	Section Number _	06	Section Title	DRIVETRAIN
<b>Describe Req</b> AE Number		nclude appropriate su 2 PDF Page Num		documentation as or 62 Attachment	
_	cooling ized wa	uage system shall be equip ster filter with a spin-o	_	requirement as Cu	val s approval to remove this mmins no longer requires a additives included in the
PTD Respon	\ a	Denied 🗆	Noted		
Comments:					
	(G	P			3/3/22
Signature of	GPTD	Official			Date

	New	Flyer of America			
Proposer/Ve	ehicle M	lanufacturer			
RFP Part _	IV	Section Number _	05	Section Title	VEHICLE PERFORMANCE
D					
AE Number	uest. In				s outlined in the RFP: ntNo
Specification TOP SPEED	n Langu	age		Request for App	proval ests approval that the bus will be
	ll be cap	pable of a top speed o	of 70		y maintaining a vehcile speed of
	_	y and passing maneuv	•	65mph, as the t	ires are rated for a top speed of
operating.	vei road	d at GVWR with all ac	cessories	65 mph.	
GPTD Respon	_	_		_	
Approved	×	Denied 🛚	Noted		
Comments:					
	(Col)	)			3/3/22
Signature of	GPTD C	 Pfficial			Date

	New	Flyer of America		_	
Proposer/Ve	ehicle N	lanufacturer			
RFP Part	IV	Section Number _	05	Section Title	VEHICLE PERFORMANCE
<b>Describe Req</b> AE Number	•		-	documentation a 0 Attachme	s outlined in the RFP: ntNo
requiremen CARB Specif #2292.5.The	shall me ts wher ications four p e met a	eet all regulatory n operating on fuel equitions s for Compressed Nate redominant character re methane, ethane,	ural Gas ristics		proval est approval to delete CNG CARB equirement as this does not apply
GPTD Respoi		Denied □	Noted	<b>P4</b> /	
Approved Comments:				,	1 , 1
This	15	a typo.	All	buses	to be diesel
		59			3/3/22
Signature of	f GPTD	Official	<del></del>		Date

GILLIG LLC					
Proposer/Vehicle Manufacturer					
RFP Part IV. Section Number 20. Section Title SIGNAGE AND COMMUNICATION					
Describe Request. Include appropriate supporting documentation as outlined in the RFP:					
Customer Specification Requirement:					
An automatic electronic destination sign system shall be furnished on the front, on the right side near					
the front door and rear of the bus					
Question, Clarification or approved equal:					
GILLIG requests approval to provide Hanover's White LED Destination Sign System for this					
requirement. The proposed system will include the following:					
- White LED Front Sign, 17 rows by 160 columns, with a display area of 8.75 in. tall by 64.75 in.					
wide.					
<ul> <li>White LED Side Sign, 8 rows by 96 columns, with a display area of 3.5 in. tall by 37.25 in. wide.</li> <li>White LED Rear Sign, 15 rows by 48 columns, with a display area of 6.4 in. tall by 18.125 in.</li> </ul>					
wide Hanover's ERIC++ Operator System Controller					
The Destination Sign reprogramming process uses a standard USB memory device instead of PCMCIA.					
Please see attached.					
Adobe Acrobat					
Document					
GPTD Response:					
Approved: Denied: Noted:					
Comments:					
(OF) 3/3/22					
Signature of GPTD Official Date					

GILLIG LLC							
Proposer/Vehicle Manufacturer							
RFP PartIV Section Number20 Section TitleSIGNAGE AND COMN	JUNICATION						
Describe Request. Include appropriate supporting documentation as outlined in the RFP:	:						
Customer Specification Requirement:							
An automatic electronic destination sign system shall be furnished on the front, on the right side near the front door and rear of the bus							
Question, Clarification or approved equal:							
GILLIG requests approval to provide Luminator's Smart Series 3 Destination Signs for this requirement.							
The Smart Series 3 signs have more pixels than required by the specification, but the dimer requirements for the front sign are slightly different than the specification:	nsional						
<ul> <li>Front Sign, 16 rows by 160 columns (2560 pixels), with a display area of 8.0 in. tall by 64.5 in. wide.</li> <li>Side Sign, 14 rows by 112 columns (1568 pixels), with a display area of 4.3 in. tall by 42.3 in. wide.</li> <li>Rear Sign, 16 rows by 48 columns (768 pixels), with a display area of 6.1 in. tall by 17.9 in. wide.</li> </ul>							
The Destination Sign reprogramming process uses a standard USB memory device instead of PCMCIA becoming increasingly difficult to find in the marketplace							
GPTD Response:							
- To responde							
Approved: Denied: Noted: Denied:							
Comments:							
Signature of GPTD Official  3/3/22  Date							

GILLIG LTC	_	
Proposer/Vehicle Manufacturer		
RFP Part _IV Section Number19.	Section Title	HEATING VENTILATING AND AIR CONDITIONING
Describe Request. Include appropriate suppo	rting documentat	ion as outlined in the RFP:
Customer Specification Requirement:		
The district currently uses ThermoKing T14-M6	6 units on their co	aches.
Question, Clarification or approved equal:		
GILLIG requests approval to provide a rear more	unted Thermo Kin	g unit to satisfy the HVAC
requirements.		
Our proposal will include the Thermo King T14	M unit with FRM	Brushless Motors XA30 Compressor
R134a and 20% fresh air intake.	ivi dilic wich Ebivi	brasiliess Wiotors, A430 Compressor,
GPTD Response:		
Approved: 🗖 Denied: 🗌	Noted:	
Approved.	Noteu:	
Comments:		
(GF)		3/3/22
Signature of GPTD Official		Date

Proposer/		/lanufacturer			
Порозелу	vernore r	idi di decaret			
RFP Part	IV.	Section Number	18.	_ Section Title	WINDOWS
Describe F	Request.	Include appropriat	te supporting	documentation	as outlined in the RFP:
Customer	Specifica	tion Requirement:			
Side wind	ow glazin	g material shall ha	ve a ¼-inch no	minal thickness	s tempered safety glass
Question,	Clarificat	ion or approved ed	qual:		
	LIG's star	·			rith film guard lining. h is utilized in buses throughout
GPTD Res	oonse:				1
Approved:	Ιχ	Denied:	Note	d: 🗆	
Comment	s:				
					717/22
Signature	of GPTD	Official	_	<u></u>	<u>)/)////</u>

GILLIG LLC		
Proposer/Vehicle Manufacturer	_	
RFP PartIV Section Number13	7. Section Title	DRIVER PROVISIONS
Describe Request. Include appropriate sup	pporting documentation	as outlined in the RFP:
Customer Specification Requirement:		
The run switch shall be a four-position rota	one curitch with the follow	ing functions:
The run switch shall be a four-position for	aly switch with the follow	onig functions.
_		
Question, Clarification or approved equal:		
GILLIG requests approval to provide a (4) p	osition rotary switch the	following functions:
- OFF: All electrical systems off, exce	ent nower available for th	on stanlights hazard lights harn
fire detection equipment, engine of	• •	
continuous energizing.	omparament ngms and e	nectionic equipment that require
- DAY RUN: All electrical systems and	d engine on, except the h	eadlights, parking lights and
marker lights.	<b>,,,</b>	
- NITE RUN: All electrical systems an	d engine on.	
<ul> <li>MARKER LIGHTS: All electrical systems</li> </ul>	ems on and engine off.	
This is inherent of the GILLIG design and a	standard on the GILLIG L	ow Floor bus.
GPTD Response:		
Approved: Denied:	Noted:	
Comments:		
(10F)		3/3/22
	_	· · · · · · · · · · · · · · · · · · ·
Signature of GPTD Official	Da	te

GILLIG LI	LC					
Proposer/	Vehicle N	/lanufacturer				
RFP Part	IV	Section Number	16	Section Title	PASSENGER ACCOMMODATIONS	
NEFFAIL	17.	_ Section Number		Section Title	FASSENGER ACCOMMODATIONS	
	-		supportir	ng documentation	as outlined in the RFP:	
Customer	Specifica	tion Requirement:				
-	-	ncorporated in the I J ramp model#LU11	_		y with the requirements defined nents.	
Question,	Clarificat	ion or approved equ	ual:			
,						
GILLIG requests approval to provide a fold-out wheelchair ramp dual mode model LU-18 manufactured by Lift-U and operated by an electric motor located at the entrance door. The ramp dimensions are a nominal thirty-one inches (30") wide and the extended length outside the bus is 48-inches.  Please see attached.						
Adobe Ad	J xobat					
Docum	ent					
COTO						
GPTD Res	4					
Approved:	×	Denied:	No	ted:		
Comment	s:					
Signature	of GPTD (	Official	_	Dat	3/3/22	

<u>GILLIG LI</u>	<u>LC</u>					
Proposer/	Vehicle M	1anufacturer				
RFP Part	IV/	Cootion Number	16	Coation Title	DASCENICED ACCORANAODATIONIC	
NET FAIL	_IV.	Section Number	16.	Section Title	PASSENGER ACCOMMODATIONS	
Describe	Radiiast I	include annronriat	e supporting	documentation	as outlined in the RFP:	
		tion Requirement:	s supporting	uocumentation	as outlined in the RFF.	
Customer	Specifical	non Requirement.				
Each door	onening	clear width shall be	no less than	20 inches with t	the doors fully opened. When	
					eight. Allowable projection into	
_					oor Opening." Projections shall	
		_			cluding door-mounted passenger	
			-		ent facilitation in accordance with	
		CFR Part 38 as det			one recinitation in accordance with	
Question,	Clarificati	ion or <mark>approved</mark> equ	ual:			
GILLIG red	juests app	proval to provide re	ar door dime	nsions as follows	s:	
_	_					
		height 80.39"				
		width 34"				
		dth to door panel 3	0.35"			
- 0	pening wi	dth to handle 26"				
This is shouldened and the CHIIC Law Florida						
This is standard on the GILLIG Low Floor bus and inherent to the GILLIG design.						
					<del></del> -	
GPTD Res	ponse:					
Approved:	ΙΧ̈́	Denied:	Noted	l: 🗌		
	- 1					
Comment	S:					
	100	<b>\</b>			- /- ioo	
	16%	)			3/3/22	
Signature	of GPTD C	 Official	_	Dat		

GILLIG LL	.C		<u></u>		
Proposer/	Vehicle N	1anufacturer			
RFP Part	IV.	Section Number	16.	Section Title	PASSENGER ACCOMMODATIONS
Describe F	Request.	Include appropriate	supporting	documentation	as outlined in the RFP:
		tion Requirement:			
		'			
Each door	opening	clear width shall be	no less than	30 inches with 1	the doors fully opened. When
open, the	doors sha	all leave an opening	no less than	84.5 inches in h	eight. Allowable projection into
					Poor Opening." Projections shall
					cluding door-mounted passenger
-					ent facilitation in accordance with
ADA descr	ibed in 4	9 CFR Part 38 as det	termined by t	ne FIA.	
Question.	Clarificat	ion or approved eq	ual:		
<b></b>		•			
GILLIG req	uests app	proval to provide fro	ont door dime	ensions as follov	ws:
	_				
		height 78.48"			
		e width 40"	JE 74"		
-	_	idth to door panel 3 idth to handle 32.23			
- 0	pening wi	dtii to nandie 52.23	,		
This is star	ndard on	the GILLIG Low Floo	or bus and inh	erent to the GI	LLIG design.
					-
COTO Dece					
GPTD Resp	oonse:				
Approved:	X	Denied:	Note	<b>s</b> : □	
Comment	s:				
	100	\			212120
	( Ot)	)			3/3/22
Signature	of GPTD	Official	55	Da	

<u>GILL</u> IG LI	<u>.C</u>				
Proposer/	Vehicle N	/lanufacturer			
RFP Part	_IV.	_ Section Number	14.	_ Section Title	INTERIOR PANELS AND FINISHES
Describe I	Request.	Include appropriate	e supporting	documentation	as outlined in the RFP:
		tion Requirement:			
					smart card reader at the front of
					o CAT 6 Ethernet cables coiled in
				o these devices.	Ethernet cables shall terminate in
tne electro	onics cap	inet behind the bus	operator.		
There will	he two a	dditional independ	ant 12v nowa	r supplies on 15	amp breakers coiled in the dash
					ed lead with both wires enclosed in
a flexible o		ando. Illio potret o	ci vice gridii iii	ciade a Bround	a read with both wires eliciosed iii
_					
Question,	Clarificat	ion or approved eq	ual:		
CILLIC roo	aata an			for a flouible as	and site. Does to the above does disco
_			-		nduit. Due to the bend radius this part of the installation. In
			-		them to their appropriate
locations v			ing and nam	esses and route	them to their appropriate
CDTD D					
GPTD Resp	onse:				
Approved:	X	Denied:	Noted	l: 🗆	
	/-				
Comment	5:				
	6.7	-)			3/3/22
	<u>OL</u>	<u></u>	_		212100
Signature (	of GPTD (	Official		Dat	te

GILLIG LLC Proposer/Vehicle Manufacturer	_	
RFP PartIV Section Number14	Section Title	INTERIOR PANELS AND FINISHES
Describe Request. Include appropriate suppor	ting documentation	as outlined in the RFP:
Customer Specification Requirement:		
An enclosed driver storage compartment shall located on top of the curb-side wheelhousing. cubic inches.	•	- I
Question, Clarification or approved equal: In response to this section, GILLIG request appr that is 21"x8"x14.5" (2560 cubic in.) with a doc	-	
GPTD Response:		
Approved: Denied:	Noted:	
Comments: Metro requests storage in addition to over	compar head s	rtment on wheelhow torage compartmen
(GP)	:	3/3/22
Signature of GPTD Official	Da	ate

GILLIG LLC		
Proposer/Vehicle Manufacturer		
RFP PartIV Section Number	Section Title	STRUCTURE
Describe Request. Include appropriate	supporting documentation	as outlined in the RFP:
Customer Specification Requirement:		
Floor drains of noncorrosive materials	shall be provided on the bus	behind the front, wheelhouse
near the wall to help drain any water t	hat may accumulate due to i	ce, snow, rain, etc.
Question, Clarification or approved equ	ıai:	
GILLIG requests clarification as to if flo	or drains are required on bot	th the curb side and the street
side.		
	<u> </u>	
GPTD Response:		
Approved:   Denied:	Noted:	
Comments:	. 1	1 1 1
Floor drains rea	quired on c	urb and Street
Tile Tile desir	C Souler Co.	to desire
Sides Two	12 LOWER DECT	TION, TWO CIVAINS
Comments: Floor drains reasons sides. Two drain upper section, four	r in total.	
		2/2/100
		3131dd
Signature of GPTD Official	Da	te

GILLIG LI	.C				
Proposer/	Vehicle N	/lanufacturer			
RFP Part	_IV.	_ Section Number	12.	Section Title	STRUCTURE
Describe I	Request.	Include appropriate	supporting	documentation	as outlined in the RFP:
		tion Requirement:			
	shall with	istand impacts of a 2			housings, as installed and 200 foot-pounds of energy
Question,	Clarificat	ion or approved equ	ıal:		
The Low F	loor whee		with all des		gauge 3CR12 type stainless steel. ance requirements of this section
	_		_		
This inhere	ent to the	e GILLIG design and t	there are no	options at this t	ime.
GILLIG req	uests apr	oroval.			
CDTD Boom					
GPTD Resp	Jonse:				
Approved:	Ä	Denied:	Note	ed: 🗆	
Comments	s: `				
	6	7			3/3/22
Signature of	of GPTD C	Official	_	 Dat	

GILLIG LI	LC				
Proposer	/Vehicle I	Manufacturer			
RFP Part	IV.	_ Section Number	12.	_ Section Title	STRUCTURE
Describe	Domicosk	Include enprepriets	cunnostino	documentation	as outlined in the RFP:
		ation Reguirement:	supporung	documentation	as outlined in the KFF:
Customer	ореспис				
					43 - 44 - 54 - 54 - 54
l	_	<del>- •</del> •			of a 2-post hoist system. Jacking
		•	_	•	s from falling off the hoist. Other pendent of the hoist.
paus or u	ie bus sti	detare shall support	the bus on	jack starius mucj	perident of the noist.
Question	Clarifica	tion or approved equ	ıalı		
Question,	Claimica	tion of approved equ	Jai.		
GILLIG red	quests ap	proval to provide jac	king points	located on the fi	ront and rear axles, rather than
			•		ing from Meritor and will permit
, ,	safe jacki	ing with the flat tire	or dual set o	n a 6 in. high rur	n-up block not wider than a single
tire.					
   GILLIG wi	ll provide	the jacking points p	ainted in ve	llow for ease of i	dentification.
-	•	, 0, ,	,		
This is inh	erent of	the GILLIG design an	d a standard	d on the GILLIG o	coach.
GPTD Res	ponse:				
Approved:	N	Denied:	Note	ъd. П	
Approved.		Deffied.	14016	:ч. 🗀	
Comment	ts:				
	1				21210-
	(6)	7)			313/22
Signature	of GPTD	Official	_	Da	ate

GILLIG LI	LC					
Proposer/	Vehicle I	Manufacturer				
	IV/	Castian North	40	•	T	CTDI ICTI IDE
RFP Part	IV.	_ Section Numb	er <u>12.</u>	56	ction Title	STRUCTURE
Describe I	Panuact	Include appropr	isto cunno	rting doc	ımontation	as outlined in the RFP:
		ation Requiremen		i tilig doc	unientation	i as outilied iii tile KFF.
Castoffici	Specifice	ation negationer	16.			
The subflo	or shall	be SpaceAge Syn	thetics The	rmo-Lite	or equal cor	mposite flooring material that will
						ard 3/4 inch marine plywood
subfloor p		·	<b>.</b>			
•						
Question,	Clarificat	tion or approved	equal:			-
						val to provide a ¾ inch phenolic
						MCI developed this lightweight
floor for the	ne transit	t industry, and it	is the only	composit	e sub-floor	available on a GILLIG coach.
<b>~</b> 1						
				the curre	nt production	on model buses and the buses
currently	operating	g in the Agency's	bus fleet.			
				<u> </u>		
GPTD Resp	oonse:		<del></del> -			<del></del>
•	. 0					
Approved:	Ä	Denied:	]	Noted:		
	U					
Comment	s:					
	1					7/2/2
	((つ	r)				313122
Signature	of GPTD	Official			Da <sup>-</sup>	

GILLIG LLC							
Proposer/Vehicle Manufacturer							
RFP Part _IV. Section Number _ 7 Section Title _ SUSPENSION							
MIFFAIL 14. Section Mulliper 7. Section file Sost English							
Describe Request. Include appropriate supporting documentation as outlined in the RFP:							
Customer Specification Requirement:							
A warning light mounted near the curbside of the front door, minimum 3" diameter, amber lens shall be provided that will blink when kneel feature is activated and throughout operation.							
Question, Clarification or approved equal:							
GILLIG requests approval to provide our standard 2" kneeling warning amber LED light mounted near the curb side of the front door.							
This is standard on the GILLIG Low Floor bus, and it is consistent with buses previously delivered to							
the Agency.							
KNEELIN							
GPTD Response:							
Approved: Denied: Noted:							
Comments:							
(GE) 3/3/22							
Signature of GPTD Official Date							

_GILLIG LI	<u>.c</u>				
Proposer/	Vehicle N	Manufacturer			
RFP Part	IV.	_ Section Number	12.	Section Title	STRUCTURE
Describe I	Request.	Include annronriate	sunnorti	ng documentation	as outlined in the RFP:
		tion Requirement:	. supporti	ig documentation	i as oddined in the KFF.
	0,00002	and in require criterion			
Where the	e floor me	eets the walls of the	bus, the s	urface edges shall	be blended with a circular section
of radius r	not less th	nan 1 inch and a mo	lding or co	ve shall prevent d	ebris accumulation between the
floor and v	wheel ho	usings.			
Ougstion	Clasificati	ion or approved equ			
Question,	Ciarificat	ion or approved equ	ıaı:		
GII I IG wis	hes to ad	lvise the Agency tha	t the floor	ing in the raised re	ear platform area will be installed
					the flooring in the lower front
		ed up the side walls.		to train from Every t	and mooning in the lower mont
		•			
This inhere	ent to the	e GILLIG design and t	there are r	no options at this t	ime.
GILLIG req	uests app	oroval.			
					<del></del>
GPTD Resp	onse:				
	4				
Approved:	X	Denied:	Not	ted:	
Commonts	/ `				
Comments	i;				
	6	2)			_
	lot	<b>( )</b>			3/3/22
	(C)		_		
Signature of	of GPTD C	Official		Dat	te

GILLIG LL	.c				
Proposer/	Vehicle I	Manufacturer			
RFP Part	_IV.	_ Section Number	5.	Section Title	VEHICLE PERFORMANCE
Describe I	Reauest.	Include appropriate	supportir	ng documentation	as outlined in the RFP:
		ation Requirement:		<u> </u>	
i -		ge of the coach run o	n the desi	gn operating profi	le shall be at least 350 miles with
full fuel ca	pacity.				
Question.	Clarifica	tion or approved equ	 ual:		
		or approved equ			
GILLIG wis	hes to a	dvise the Agency tha	t each one	eration incorporate	es a wide variety of factors that
1		fuel mileage of the c	-	ration meet porute	es a wide variety of factors that
D t . th .					and the fitting and the same at the same
1				_	rrain, traffic conditions, weather, LIG requests concurrence that the
fuel milea	ge as spe	ecified by the Agency		· ·	, and not a guaranteed minimum
by the ma	nufactur	er.			
GPTD Resp	oonse:				
Approved:	X	Denied:	No	ted:	
Comment					
Comment	J.				
	F	)			7/2/01
	(12)	<u></u>	_		3/3/22
Signature	of GPTD	Official		Da	te

GILLIG LLC
Proposer/Vehicle Manufacturer
RFP PartIV Section Number6 Section TitleDRIVETRAIN
Describe Request. Include appropriate supporting documentation as outlined in the RFP:
Customer Specification Requirement:
Engine oil and the radiator filler caps shall be hinged to the filler neck and closed with spring pressure
or positive locks.
Question, Clarification or approved equal:
GILLIG requests approval to provide twist on engine and radiator filler caps as seen below.
C C
Each cap is designed to provide a positive lock, which prevents leakage, and are securely tethered to
each fill neck assembly to prevent misplacement of the caps while filling.
GILLIG requests approval of our proven standard installation.
GPTD Response:
GFTD Response.
Approved: Denied: Noted:
Comments:
GP 3/3/22
Signature of GPTD Official Date

GILLIG LI	.C				
Proposer/	Vehicle N	/lanufacturer			
RFP Part	IV.	Section Number	4.	Section Title	OVERALL DEGLEDERATRITS
MFFGIL	18.	- Section Mullipel	4.	_ Section fille	OVERALL REQUIREMENTS
Describe F	Request.	Include appropriate	supporting	documentation	as outlined in the RFP:
		tion Requirement:			
	•	•			
Rated cap	acity of th	ne bus shall be no le	ss than 32 se	ated passenger	s, not including the driver, with
the specifi	ed seatin	g arrangement.			•
Overtica	Claudii 41	·			
Question,	Clarificati	ion or approved equ	ıaı:		
GILLIG rea	uests ann	royal to provide a s	eat lavout th	at coate (21) no	ssengers and includes (2) Q'straint
		nent systems.	eat layout tri	at seats (SI) pa	ssengers and includes (2) Q straint
~ pou	· securen	iche systems.			
GILLIG is s	ubmitting	a sample seat lavo	ut for the Age	encv's review. T	his is intended to only show a
					sions. If GILLIG is the successful
		ride a custom layou			
Please see	attached	i.			
7					
Adobe Ac	robat				1
Docume	-				
<b>GPTD Resp</b>	onse:				
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Approved:	×	Denied:	Noted	l: 🔲	
Comments	••				
Comments	).				
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	11-1	2)		-	7/2/2
	10	<u>/</u>	_8		3/3/22
Signature of	of GPTD C	Official		Dat	

GILLIG LL	<u>.c</u>				
Proposer/	Vehicle N	1anufacturer			
•					
RFP Part	_IV	Section Number	4.	_ Section Title	OVERALL REQUIREMENTS
Describe I	Request.	Include appropria	te supporting	documentation	as outlined in the RFP:
Customer	Specifica	tion Requirement:	-	_	
	•	•			
Rased und	n the De	sign Onerating Pro	file defined in	Part IV. Section	1 routine scheduled maintenance
					quired at intervals of less than
					duty shown below, or as indicated
					med during the fueling operations.
_	els of sch	eduled maintenan	ice tasks shall	occur at even m	nultiples of mileage for lower level
tasks.					
Question,	Clarificat	ion or approved e	qual:		
GILLIG WO	uld like to	advise the Agend	v that all main	ntenance tasks s	hould occur at the manufactures
					Itiples. GILLIG's Service Manuals
		for all of the nece	-		telpico. Gizzio s soi rico ividitazio
includes a	schedule	ioi ali oi the nece	ssary mainter	ialice tasks.	
<b>GPTD</b> Res	ponse:				
Approved:	X	Denied:	Note	d: 🔲	
	/*				
Comment	s:				
	1/	. }			719/00
	114				313/22
Signature	At GPTD (	Otticial		Da	ate

GILLIG LI	.c				
Proposer/	Vehicle I	Manufacturer			
RFP Part	IV.	_ Section Number	4.	Section Title	OVERALL REQUIREMENTS
D	<b>.</b>				as authors in the DED.
		include appropriate ation Requirement:	supportin	ig documentation	as outlined in the RFP:
Customer	Specific	ation nequirement.			
	-			-	umpers, fender skirts, washers, ons as shown in the figure "Transit
		nensions" at static co			ons as snown in the lighte Transit
Body Leng	gth: 35 fe	eet ± 6 inches			
Question,	Clarifica	tion or approved equ	ual:		
GILLIG wis	shes to c	larify that the 35' Lov	w Floor bus	s is 36.01' in lengtl	ո.
		•		_	
This is cor	nsistent v	vith the fleet of GILLI	lG buses pr	reviously delivered	I to the Agency.
   GILLIG red	uests ar	proval.			
GILLIO FOR	Jacoto ap	Provide			
	,				
GPTD Res	ponse:				
Approved:	<b>√</b>	Denied:	No	ted:	
Approved.	7	Defilled.	140		
Comment	:S:				
	17				717/10
	W		_	-	3/3/22
Signature	of GPTD	Official		Da	te

GILLIG LLC	3				
Proposer/V	ehicle M	lanufacturer			
	n. /				
RFP Part	IV.	Section Number	4.	Section Title	OVERALL REQUIREMENTS
			-•		
			supporting o	documentation	as outlined in the RFP:
Customer S	pecifica	tion Requirement:			
		ne first step up fron	n street level	shall not exceed	d 15 inches with the bus at the
design heig	nt.				
Overtien (	1:6:+:		1-		
Question, C	Jarincati	ion or approved equ	uai:		
CILLIC wish		الم عمومية والمعادرة والمارية	laaustau kaisi	L 1 F 2 II	
GILLIG WIST	ies to cia	rify that the front d	loorstep neigi	nt is 15.3 .	
This is inho		ha CILLIC dasies as	ــ ـــ حــ ـــ ــــ		- tim-
IIIIS IS IIIIIE	rent to t	he GILLIG design an	u mere are m	o options at this	s time.
GILLIG requests approval.					
GILLIG TEQU	iesrs aht	JI UVAI.			
				<del></del>	
GPTD Respo	onco.				
dr 10 Kespi	J113E.				
Approved:	⊠Í	Denied:	Noted	: <b></b>	
	7	2020.		• —	
Comments:					
		\			
	(LF	)			3/3/22
	(6)	/	_		212100
Signature o	f GPTD (	Official	-	Da	te

_GILLIG LLC
Proposer/Vehicle Manufacturer
DED Dord 187 Continue Number 47 O. C. Titl Day (To Documents)
RFP Part IV. Section Number 17. Section Title DRIVER PROVISIONS
Describe Postucet Include appropriate comparting decomparties as a subject to the DED
Describe Request. Include appropriate supporting documentation as outlined in the RFP:  Customer Specification Requirement:
customer specification requirement.
The bus shall be equipped with a variable speed windshield wiper for each half of the windshield,
with separate controls for each side.
Question, Clarification or approved equal:
GILLIG requests approval to provide (2) electric operated, heavy duty windshield wipers
manufactured by Sprague Industries, and controlled by a single knob.
The wipers are of the self-parking type, each controlled by individual motors with adjustable speed.
The motors are mounted inside the bus and external provisions make for ease of inspection,
maintenance, and replacement.
This is stoned and an a CHAICA . El. I
This is standard on a GILLIG Low Floor bus.
GPTD Response:
4
Approved: Denied: Moted: D
Comments:
<u>3/3/22</u>
Signature of GPTD Official Date
<del>-</del>

GILLIG LI	LC				
Proposer/	Vehicle I	Manufacturer			
RFP Part	<u>IV.</u>	Section Number	_17	Section Title	DRIVER PROVISIONS
Describe	Reauest.	. Include appropriate	supporti	ng documentation	as outlined in the RFP:
		ation Requirement:			<u> </u>
Snace sha	ll be pro	vided on the panel fo	or future a	dditions of no less	than 5 indicators as the capability
	•	ostic systems improv			• • • • • • • • • • • • • • • • • • •
Question,	Clarifica	tion or approved equ	ual:		<del></del>
GILLIG roa	nuocte ar	proval to provide a	ır etandarı	d operators diagno	stic indicator lamp panel that does
					are use. The current GILLIG
		nel assembly is fully o			
requirem	ents.				
This is the	only ava	ailable indicator lamp	panel as	sembly on a GILLIG	Low Floor bus.
	· • · · · · · · · · · · · · · · · · · ·			•	
GILLIG red	quest app	proval.			
_					
	de Charce				
	STRAIT STRAIT		TAMP FART AD	DEY REAL CHARLES COMES SHOPEN SHIPLES SHIPLES	ESST STOPE PRAME PAME PAME PAME PAME PAME PAME PAME P
GPTD Res	nonco:				
GFID Res	ponse.				
Approved:	×	Denied:	N	oted: 🔲	
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Commen					
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-	<u>(01)</u>	<u>/</u>			3/3/22
Signature	of GPTD	Official		Da	te

GILLIG LL	C				
Proposer/	Vehicle M	1anufacturer			
RFP Part	_IV.	Section Number	14.	Section Title	INTERIOR PANELS AND FINISHES
Describe R	Request. I	nclude appropriate	supporting d	ocumentation	as outlined in the RFP:
		tion Requirement:			
		•			t be designed to protect the
=		• •	-	-	ects, spitting, punching, or other
			-		entry by unwanted persons and
					tate communication and
interaction	n betweer	n the operator and p	oassengers at	the operator's	discretion.
The winde	w chall b	o manually aparato	d and must be	automotivo a	rado safotu glass. Ploviglas will not
				-	rade safety glass. Plexiglas will not to ensure the HVAC works
•					on fans. It must allow the operator
	•				parrier must not impede operator
					al driving operation.
			,		
The barrier	r must no	t unduly encroach u	upon the oper	ator's workspa	ce or impede the flow of
		•	•	•	fit and finish without rattles,
-				-	he frame and any stanchions
added for	mounting	/latching purposes	must be Stair	less Steel or po	owder coated yellow to match the
overall des	sign of the	e bus interior			
Question,	Clarificati	ion or approved equ	ıal:		
		1			
•		oval to provide the	Vapor vShield	Operator Prot	ection Door to satisfy this
requireme					
Please see	attached				
FOF					
Adobe Ac					
Docume	ent				
<b>GPTD Resp</b>	onse:				
	_	. 14		_	
Approved:	L	Denied: 💢	Noted		
Comments		•			
Comments		$\Im$			7 17 100
	164	1			S/S/2d
Signature (	of GPTD (	Official	_	Dat	te

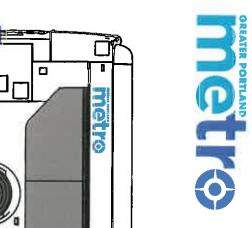
GİLLIG LI	.C				
Proposer/	Vehicle M	lanufacturer			
RFP Part	IV.	Section Number	14.	Section Title	INTERIOR PANELS AND FINISHES
-					
			supportin	g documentation	as outlined in the RFP:
Customer	Specificat	tion Requirement:			
		=			be designed to protect the
			_		ects, spitting, punching, or other
				=	entry by unwanted persons and
		•	-	-	tate communication and
interactio	n petweel	n the operator and <sub>I</sub>	passengers	at the operator's	discretion.
The winds	su abali b	a manually anarata	d and marret	· ha automotivo er	ando cofoty alone Dioviales will not
		• •		_	ade safety glass. Plexiglas will not consure the HVAC works
•					on fans. It must allow the operator
_	-				parrier must not impede operator
		d mirrors or create	-		
VICW OI (II	c road an	a militors of create i	arry Dirito 3	pots daring norms	a driving operation.
The barrie	r must no	ot unduly encroach u	upon the o	perator's workspa	ce or impede the flow of
			-	-	it and finish without rattles,
		-			he frame and any stanchions
	-	-		•	owder coated yellow to match the
	_	e bus interior			,
	Ŭ				
Question,	Clarificati	on or approved equ	ıal:		
GILLIG red	uest appr	oval to provide the	Arow Glob	al's AROWGuard I	Oriver Protection System to satisfy
this requir	ement.				
Please see	attached				İ
T.	1				
SEE	j				i
Adobe Ad					
Docum	eni				
-					
GPTD Resp	oonse:				
Approved:	Ä	Denied:	Not	ed:	
Comment	s:				
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Signature	of GPTD C	Official	_	Dat	ie

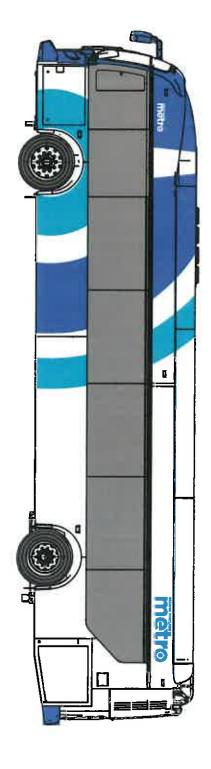
GILLIG LLC						
Proposer/Vehicle Manufacturer						
RFP Part II. Section Number 18	. Section Title SPECIAL PROVISIONS					
NIFFAIL II. Section Number 10	Section file SPECIAL PROVISIONS					
·	porting documentation as outlined in the RFP:					
Customer Specification Requirement:						
Please provide separate line items in the co	est proposal for training on vehicle electronics, HVAC,					
· ·	nnology. These lines items should indicate approximate					
number of hours of training and cost associ	ated with these hours					
Question, Clarification or approved equal:						
	T					
• • •	gine, Transmission and HVAC training is specifically set-up					
per student. Please define the number of students and number of days required for this training.						
GPTD Response:						
Approved: Denied:	Noted:					
Comments:						
(of)	3/3/22					
Signature of GPTD Official	Date					

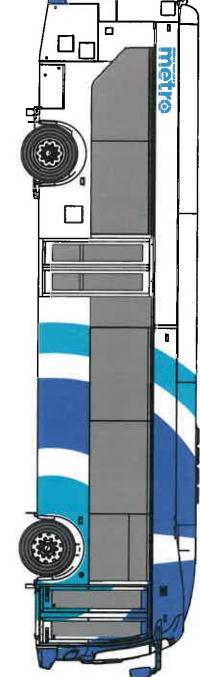
GILLIG LI	.C					
Proposer/	Vehicle M	lanufacturer	_			
RFP Part	<u>II.</u>	Section Number	20.	Section Title	Oil Analysis Upon Delivery	
Describe I	Request. I	nclude appropriate	supporting d	ocumentation	as outlined in the RFP:	
					.	
Customer Specification Requirement:  The Contractor shall pay for engine and transmission oil analysis of each GPTD bus order. The day the buses are delivered to GPTD, GPTD personnel will take a sample of oil from the engine and transmission of each bus and send it to the oil analysis laboratory. GPTD will send a copy of the oil report to Contractor and will bill the Contractor for the cost of each sample.						
Question,	Clarificati	on or approved equ	ıal:			
GILLIG requests approval to delete the requirement for the contractor to pay for an engine and transmission oil analysis of each GPTD bus order, as this is not part of GILLIG's standard offerings.						
GPTD Res	oonse:					
Approved:	×	Denied:	Noted:			
Comment	s:					
Signature	GF GPTD G	Official	_	Dai	3/3/22	

GILLIG LLC	
Proposer/Vehicle Manufacturer	
RFP PartIV Section Number13 Section	n Title EXTERIOR PANELS AND FINISHES
Describe Request. Include appropriate supporting document	ntation as outlined in the RFP:
Customer Specification Requirement:	
Colors will match DUPONT transit-grade white (#B8424 HN), Electronic pictures of our existing fleet can be forwarded to	
Question, Clarification or approved equal:	
GILLIG request approval to provide our standard Axalta Imro this section.	n Elite low VOC 2.8 paints/coatings for
The Axalta (Dupont) coatings supplied will be polyurethane eand gloss. These coatings can be repaired with conventional United States.	- · · · · · · · · · · · · · · · · · · ·
GPTD Response:	
Approved: Denied: Noted:	
Comments: Metro paint scheme has ch See attached diagram.	anged for original
60	3/3/22
Signature of GPTD Official	Date

GILLIG LLC
Proposer/Vehicle Manufacturer
RFP Part IV. Section Number 13. Section Title EXTERIOR PANELS AND FINISHES
Describe Request. Include appropriate supporting documentation as outlined in the RFP:
Customer Specification Requirement:
Colour will makely DUDONT transity and a white (#D0434 UN) with blue (DMS 2435) 9" atring
Colors will match DUPONT transit-grade white (#B8424 HN), with blue (PMS 3135) 8" stripe.  Electronic pictures of our existing fleet can be forwarded to prospective bidders upon request.
Electionic pictures of our existing fleet can be forwarded to prospective bidders aport request.
Question, Clarification or approved equal:
GILLIG requests electronic pictures of the existing fleet.
Gillio requests electronic pictures of the existing flect.
GPTD Response:
Annual Desire Desired Metado M
Approved: Denied: Moted:
Approved: Denied: Noted: Denied: Comments: See attached
See allowiece
(GE) 3/3/22
Signature of GPTD Official Date













GILLIG LI	.c					
Proposer/	<b>Ve</b> hicle N	/lanufacturer				
RFP Part	_IV	_ Section Nun	nber <u>14</u>	· <u> </u>	Section Title	INTERIOR PANELS AND FINISHES
Describe I	Request.	Include appro	priate sup	porting do	cumentation	as outlined in the RFP:
		tion Requirem				
i ne entire	interior	snali be cleana	ible with a	i nose, usin	ig a ilquid soa	p attachment.
181						
2	OL 151	7				
Question,	Clarificat	ion or approve	ed equai:			
GILLIG red	uests ap	proval to delet	e the requ	uirement fo	or the entire i	nterior to be cleanable with a
hose.						
When clea	aning the	floor, GILLIG r	ecommen	ds using a	broom and m	op, and not a hose. GILLIG also
recomme	nds that o	aulking/seale	in floorin	g seams be	regularly ins	pected and maintained' cracks in
the flooring	ng or at se	eams can allov	v water or	other liqui	ds to seep th	rough and damage the flooring
adhesive a	and the p	lywood floor.				
GPTD Res	ponse:					
Approved:		Denied:	П	Noted:	ĭ <del>√</del> i	
Approved.		Defficu.		Notea.	<del>/*</del>	
Comment	s:					
	In	7				2 10 100
	(0)	(Y)				3/3/22

GILLIG LLC	
Proposer/Vehicle Manufacturer	
Signature of GPTD Official	Date

CBS / ElDorado Na Proposer/Vehicle N	<u>tional (California), In</u> ⁄Ianufacturer	<u>c.</u>	
RFP Part <u>II</u> Secti	on Number <u>9</u>	Section Title Excusable Delays/Force Majeure	
Describe Request. I	nclude appropriate s	upporting documentation as outlined in the RFP:	
by the Contractor by events such as any e not limited to acts o	delay arises after the y reasonable investig event or circumstance f God; earthquake, fl	Notice of Award, and neither was nor could have been anticipation before such award. Such cause may include force majeus beyond the reasonable control of the Contractor, including bood and any other natural disaster; civil disturbance, strikes and other hostilities; or embargo.	re out
	on or Approved Equi for the inclusion of t	al: ne COVID-19 pandemic in the list of allowed exceptions to	_
GPTD Response:			
Approved: 🛚	Denied: 🛚	Noted: 💢	
Comments: Pandemic all othe	delays v criter	ave included as long as in Section 9 ave	met
(GF		3/7/22	

Date

Proposer/Vehicle	<u>ational (California), inc.</u> Manufacturer			
RFP Part <u>l</u> Sec	tion Number <u>3</u> Se	ection Title <u>Genera</u>	al Information and Background	<del>d</del>
Describe Request.	Include appropriate su	pporting documer	ntation as outlined in the RFP	e e
manufacture and o	nd Transit District (the "lelivery of a base order of I ten (10) options for add	of eleven (11) 35-fo	nunicipal agency, requests proposed, 12-year/500,000-mile tra PTIONAL" order) per the terms	nsit diesel buses
Clarification reque	rm1: Cost Proposal and	equired since the b	breakdown of equipment orde n page 110 which calls out a 4	
Approved: 🛭	Denied: 🛭	Noted:		
Comments: This is this con	a typo. ntract are	All buse to be	35!	0N
Ĝ)			3/3/2	2

Signature of GPTD Official

Date

CBS / ElDorado National (California), Inc.

Proposer/Vehic	le Manufacturer		
RFP Part <u>II</u> Se	ection Number C.6.	Section Title <u>Payment</u>	
Describe Reques	st. Include appropriate	e supporting documentation as outlined	in the RFP:
All final customiz (MSO) shall be p	s, Manuals, and MSO ed parts books, diagra rovided upon acceptar	ams, maintenance manuals and Manufact nce of each bus. If the manuals are not de ast bus will be withheld until all manuals a	livered with the acceptance
Approval request within 30 days of will allow adequate	f vehicle <mark>delivery. B</mark> eca ate generation time as	nual: manual and all other service and parts manual and all other service and parts manuals are custom built to the ENC does not generate parts/service/opethe bus has shipped, guaranteeing that a	specifics of your order, this erators' manuals until the
GPTD Response:			
Approved: 🛚	Denied: 🗓	Noted: 🗡	
Comments: Manual	delivery	within 30 days ld-back will be are received.	, accepted,
Note	20% hol	d-back will be	e maintained
until	Manuals	are received.	
	e)	3	17/22
Signature of GPT	D Official	Date	

CBS / ElDorado N	ationai (California), Inc	<u>e</u>		
Proposer/Vehicle	Manufacturer			
RFP Part <u>II</u> Sect	tion Number <u>11</u> S	ection Title <u>Compliance</u>	with Laws and Regulations	
Describe Request.	Include appropriate su	apporting documentation	on as outlined in the RFP:	
(together, the "Lav including those list otherwise applicab	all times comply with a v"), including without li ed directly or by refere see to any part of this Co	mitation, FTA regulation nce in any agreement(s) ontract, as they may be a	ations, policies, procedures and directives, policies, procedures and directives, between GPTD and FTA that funds or is amended or promulgated from time to smply shall constitute a material breach	s
In addition to the s regulatory changes	•	we request approval for changes, etc.) that occur	r the cost of any required Federal or Sta r during the contract period be passed	ite -
GPTD Response:				
Approved: 🛚	Denied:	Noted: 🛽		
Comments:	,			
	_			
(G			017100	
	<u></u>		3/7/22	

Date

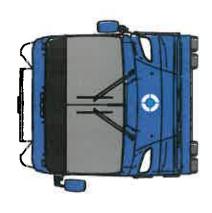
CBS / EID	orad	o National (Califor	nia), Inc.		
		icle Manufacturer			
RFP Part	IV	Section Number	13	Section Title <u>Ex</u>	tterior Panels and Finishes
Describe (	Requ	est. Include approp	oriate supp	porting documentation as	s outlined in the RFP:
pecificat		question:			
			th and free	e of wrinkles and dents. Ex	kterior surfaces to be painted shall be
					oplication of paint to assure a proper
ond betv	veen	the basic surface a	nd success	ive coats of original paint	for the service life of the bus.
Duestion /	'Clarif	fication or Approve	d Faual		
				ns paint system that has b	een developed specifically for
Dorado	Natio	nal - California's pa	int proces	ses. Akzo Nobel's personi	nel conduct monthly audits of
-		•			orado National - California's paint
taff inclu	ding a	any recently hired s	taff. Pleas	se reference attached bro	chure.
GPTD	Respo	onse:			
Approv	ved:	Denie	i: <b>7</b>	Noted: 1	
Comm	ents:				
		CA			3/3/22
Signate	ure of	FGPTD Official			Date

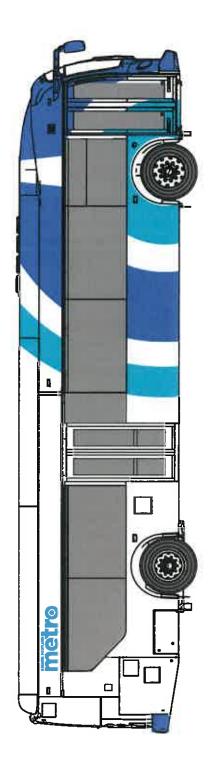
CBS / ElDorado Na Proposer/Vehicle	at <mark>ìonal (California), In</mark> Manufacturer	<u>c.</u>		
RFP Part IV Sect	ion Number <u>13</u>	Section Title <u>Exterior Pa</u>	nels and Finishes	
Describe Request.	Include appropriate s	upporting documentat	ion as outlined in the RFP	<b>:</b> :
Specification in qu Finish and Color Electronic pictures	<del></del>	ın be forwarded to pros	spective bidders upon req	uest.
	tion or Approved Equi ctronic pictures of you		uate pricing may be provi	ded.
GPTD Response:	Denied: 🛭	Noted:		
			- scheme d to be	provided. Modified
68			3/3/6	22

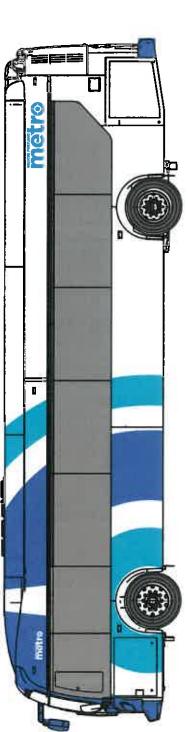
Date



















#### LV650 Basecoat/Topcoat

#### **Features**

- One system for all your needs
- HAPS Compliant
- Thousands of colors available
- More robust system
- High solids

#### **Benefits**

- Product assortment reduction, less inventory
- Meets all current environmental regulations
- More OE and Fleet color capabilities including metallics and pearls
- Superior sag resistance and improved results in hot and humid conditions
- Better coverage with only a cross coat application results in increased productivity

Autocoat® BT LV650 is latest innovation for the commercial market. The product, a multi-generational upgrade to the popular Autocoat LV, utilizes the same set of toners for both base clear and single stage systems. This capability was added in an effort to help businesses better manage their inventory. It also provides maximum application flexibility. LV650 was specifically designed to be used in either OE or repair markets. In either situation it enables commercial businesses to minimize inventory by providing one system for all application needs.

**Autocoat BT** 



CBS / ElDorado Na Proposer/Vehicle N	<u>itional (California), Ir</u> Manufacturer	<u>1C.</u>			
RFP Part <u>IV</u> Secti	ion Number <u>13</u>	_Section Title Exterior	Panels and Fin	ishes	
Describe Request.	Include appropriate	supporting document	tation as outlin	ed in the RFP:	
Specification in que Numbering and Sig Monograms, numb outside of the bus a	rning ers and other special	l signing specified by t	:he District shal	ll be applied to the	inside and
	tion or Approved Equ D's decal specifics, so	<u>u<b>al:</b></u> o adequate pricing ma	y be provided.		
GPTD Response:					
Approved: 🛚	Denied: 🖪	Noted:			
Comments: Metro re l'inside, consisten	quires 6 Inside	signage APTA s	bus and standa	mumbers decals rds	; and arc

Date

CBS / ElDorado N	ational (California), inc	C.
Proposer/Vehicle		
RFP Part IV Sect	tion Number 19	Section Title <u>Heating Ventilating and <b>Air Conditioning</b></u>
Describe Request.	Include appropriate s	upporting documentation as outlined in the RFP:
Specification in que Stepwell Heaters Stepwell heater to	nestion: be controlled by switch	h.
	tion or Approved Equa d for front stepwell hea	al: at to be hot air directed from a vent off of the defroster.
GPTD Response:		
Approved: 🛚	Denied:	Noted: 🛽
Comments:	,	
<u>Gr</u>		3/3/22
Signature of GPTD	Official	Date

CBS / ElDorado National (California), Inc.

Proposer/Vehicle Manufacturer

RFP Part IV Section Number 19 Section Titl	e <u>Heating Ventilating and Air Conditioning</u>
Describe Request. Include appropriate supporting	documentation as outlined in the RFP:
Specification in question: Capacity and Performance This air shall be composed of no less than 20 percer throughout the bus with air velocity not exceeding 3 Heated air introduced into the bus shall contain no	100 feet per minute on any passenger.
These include things such as merv rating of the filte between inside and outside the bus, what features/	is a dynamic ratio and is a function of several factors.  r/s, cleanliness of the filter/s, temperature differential  equipment is on the roof or surrounding the unit and is  Standard Bus Procurement guidelines requirement for
GPTD Response:	. 8
Approved: 2 Denied: 2 Not	ted: 📈
Outside air goal is quaranteed outside	20%. Minimum 10%.
(GE)	313/22
Signature of GPTD Official	Date

	<b>ado National (Califo</b> ehicle Manufacturer		
RFP Part <u>l</u>	V_Section Number_	34 Section Title Warr	ranty Requirements
Describe Re	quest. include appro	opriate supporting docum	entation as outlined in the RFP:
Warranty w	warranty. The warra		are caused <b>by equipment</b> breakdown that are n the <b>time</b> required multiplied by the labor rate ite.
Approval rec	ckage. Please know	tion of this requirement in that warranty for towing i	its entirety as not a part on ENC standard is covered in the base warranty from Cummins for transmission related items for 2 years.
GPTD Respo	onse:		
Approved:	Denied:	P Noted: 2	
Comments:			

Date

Proposer/Vehicle Man		nc.	
RFP Part <u>IV</u> Section	Number <u>34</u>	_Section Title <u>Warranty Requ</u>	irements
Describe Request. Incl	ude appropriate	supporting documentation a	s outlined in the RFP:
Specification in question The warranty shall cover		sts and 100% labor costs.	
Ouestion/Clarification Approval requested for warranty package.			y as not a part of the ENC standard
GPTD Response:			
Approved: 🏻	Denied:	Noted: 🛮	
Comments:	·		
(GF)			3/3/22

Date

	ational (California), Inc	4 00		
Proposer/Vehicle	Manufacturer			
RFP Part <u>IV</u> Sect	tion Number <u>34</u>	Section Title <u>Warrantv Re</u>	guirements	
Describe Request.	Include appropriate s	upporting documentation	n as outlined in the RFP:	
Specification in qu				
	y (Propulsion System)			
			ting items excluded from the Ex Pre-Offer Change or Approved	
*	tion or Approved Equa t please see attached E	ıl: xtended Warranty Exclus	ions.	
GPTD Response:				
Approved: 🛽	Denied: 🛚	Noted: 🕅		
Comments:				
(GE			3/3/22	

Date

## NEW PRODUCT WARRANTY



#### PARTICIPATING OEM SALES DISTRIBUTOR SALES

a comparation of the comparation

# LIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS USED IN SHUTTLE & OTHER BUS APPLICATIONS-EXCEPT TRANSIT, SCHOOL BUS, INTERCITY BUS, or MOTORHOME

Allison Transmission, Inc. will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in a Bus, other than School Bus, Transit Bus, Intercity Bus, or Motorhome in accordance with the following terms, conditions, and limitations.

#### WHAT IS COVERED

- WARRANTY APPLIES This warranty is for new Allison transmission models listed below installed in a Bus, other than School Bus,
   Transit Bus, Intercity Bus, or Motorhome and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- REPAIRS COVERED The warranty covers repairs or replacement, at Allison Transmission's option, to correct any transmission
  malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements
  will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- TOWING Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- PAYMENT TERMS Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section "APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE."
- OBTAINING REPAIRS To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer
  within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or
  Dealer to perform necessary repairs.
- TRANSMISSION REMOVAL AND REINSTALLATION Labor costs for the removal and reinstallation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- WARRANTY PERIOD The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail
  purchaser, with the following exception:

Demonstration Service—A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

#### APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE

APPLICABLE		RANTY LIMITATIONS /hichever occurs first)		CHARGE TO BE CUSTOMER
MODELS	Months	Transmission Miles Or Kilometers	Parts	Labor
B 210, B 220, B 300, B 400, B 500	0–24	No Limit	No Charge	No Charge
1000 Series, 2000 Series, 2400 Series	0–36	No Limit	No Charge	No Charge
1000 PTS, 2100 PTS, 2200 PTS, 2350 PTS, 2500 PTS, 2550 PTS, 3000 PTS	0–36*	0–100,000 m 0–160 000 km	No Charge	No Charge

\* Effective July 2006, the Allison transmission in your vehicle may be covered by additional extended coverage, dependent on the Original Equipment Manufacturer (OEM) which manufactured your vehicle. This additional coverage requires continued use of an Allison Approved TES 295 automatic transmission fluid and genuine Allison filters. Please consult your OEM Dealer or authorized Allison Transmission Distributor or Dealer for specific information.

#### WHAT IS NOT COVERED

- DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION Defects and damage caused as the result of any of the following
  are not covered:
  - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
  - Misuse of the vehicle;
  - Installation into unapproved applications and installations;
  - Alterations or modification of the transmission or the vehicle, and
  - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
  - Anything other than defects in Allison Transmission material or workmanship

NOTE: This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- CHASSIS, BODY, and COMPONENTS The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL — Defects and damage caused by any of the following are not covered:
  - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission:
  - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- MAINTENANCE Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the
  owner's responsibility.
- REPAIRS by UNAUTHORIZED DEALERS Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS Defects and damage caused by the use of parts that are
  not genuine Allison Transmission parts are not covered.

- EXTRA EXPENSES Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- "DENIED PARTY" OWNERSHIP Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

#### OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY.

PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.\*\*

\*\* Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

#### OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

#### **QUESTIONS**

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.

P.O. Box 894

Indianapolis, IN 46206-0894

Attention: Warranty Administration PF-9

Form SE0614EN (201112)

## **Cummins Bus Travel Or Towing Extended Coverage Plan**

Coverage

Cummins Bus Extended Coverage Plan (Plan) is available to be purchased for all eligible Cummins Engines used in automotive applications marketed for use anywhere in the world under the trademark "Cummins", "Cummins ReCon®", or "Cummins Westport". This Plan covers any failure of the Engine, under normal use and service, which results from a defect in material or factory workmanship (Covered Failure).

Fail Code	Covered Component	Fall Code	Covered Component
DA	Accessory Drive	FL	Fuel Lines
BA	Balancer	BG	Gear Cover
KC	Base Engine Cooling System	BD	Gear Housing
BC	Camshaft	IH	Intake Heater
BN	Connecting Rod	IN	Intake System
EDCB	Coolant Level Sensor	PL	Lift Pump
BB	Crankcase	BL	Liner
BS	Crankshaft	LS	Lubricating System
BK	Cylinder Block	LC	Lubricating Oil Cooler
CH	Cylinder Head	LN	Lubricating Oil Pan
KV	EGR & Variable Geometry Turbocharger Coolant Plumbing	LP	Lubricating Oil Pump
EU	Electronic Engine Controls	EDOB	Oil Level Sensor
SQ	Engine Brakes Exhaust Assembly	BP	Piston
El	Engine Control Module	BR	Piston Ring
EQPE*	ECM Calibration	EYPB	Position Sensor
ΙE	Exhaust System	EA	Pressure Sensor
IR	Exhaust System	RA	Rocker Lever Assembly
SN	Flywheel Housing	EL	Speed and Position Sensor
SMFS	Front Engine Mount	ΕΤ	Temperature Sensor
BM	Front and Rear Crank Seals	RC	Valve Tappet Assembly

<sup>\*</sup>This plan covers ECM Calibrations only and does not cover adjustable features/parameters, SC or DO options.

This Plan begins on the expiration of the Cummins Base Engine Warranty applicable to the Engine. Coverage ends at the time, miles (kilometers) or hours specified on the accompanying Certificate, whichever occurs first, AS MEASURED FROM THE CUMMINS BASE ENGINE WARRANTY START DATE.

#### **Cummins Responsibilities**

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Covered Failure.

Cummins will pay for the lubricating oil, antifreeze, diesel exhaust fluid, filter elements and other maintenance items that are not reusable due to a Covered Failure.

Cummins will pay reasonable labor costs for Engine removal and reinstallation when necessary to repair a Covered Failure.

Cummins will pay reasonable costs for towing a vehicle disabled by a Covered Failure to the nearest authorized repair location. In lieu of towing expenses, Cummins will pay reasonable costs for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging, when the repair is performed at the site of the failure.

#### **Owner Responsibilities**

Owner is responsible for operation and maintenance of the Engine as specified in the applicable Cummins Operation and Maintenance Manual. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of this Coverage, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Covered Failure and make the Engine available for repair by such facility. Owner is also responsible for delivering the Engine to the repair facility. Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements, beits, hoses and other maintenance items provided during covered repairs unless such items are not reusable due to the Covered Failure.

Owner is responsible for communicating expenses, meals, lodging and similar costs incurred as a result of a Covered Failure.

Owner is responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Covered Failure.

Owner is responsible for the cost to investigate complaints, unless the failure is caused by a defect in Cummins material or factory workmanship.

#### Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel as listed in the Cummins Fuel Bulletin #3379001 Table 1 (Cummins Inc. Required Diesel Fuel Specifications) can damage the Engine and aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage. Fuel specifications also need to comply with local fuel regulations (EN590 for Europe and ASTM D975 for North America) for Warranty eligibility.

#### Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:

EPA 2007/2010/2013/2017 max. 15 parts per million
EPA Tier 4 Interim / Final max. 15 parts per million
EU Stage IV 2011 max. 15 parts per million
Euro 4/5 max. 50 parts per million
Euro 6 max. 10 parts per million

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warmup, run-in or shutdown practices; unauthorized modifications of the Engine. Cummins is also not responsible for failures caused by incorrect oil or fuel, or by water, diesel exhaust fluid, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Aftertreatment components are not covered by this Plan.

This Plan does not apply to accessories supplied by Cummins which bear the name of another company. Such non-warranted accessories include, but are not limited to: alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, steering pumps, non-Cummins fan drives, Engine compression brakes and air compressors.

Cummins branded alternators and starters are not covered by this Plan.

This Plan does not apply to maintenance components, including, but not limited to: fuel injectors, fuel pump, STC hydraulic tappets, STC oil control valve, fuel control valve, low pressure fuel regulator, throttle plate actuator, spark plugs, spark plug boots, ignition coils, ignition control module, turbocharger, air compressor, fan clutch, water pump, fan hub, fan idler pulley assembly, vibration damper, belts, hoses, belt tensioner and thermostat.

Parts used to repair a Covered Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Covered Failure under this Plan assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

This Plan is transferable to subsequent Owners of the Engine by notifying a Cummins Distributor within 90 days of the transfer of ownership.

This Plan does not duplicate other Coverage applicable to the Engine.

Fees paid for this Plan are not refundable.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

EXCEPT FOR THE PUBLISHED CUMMINS ENGINE WARRANTY APPLICABLE TO THE ENGINE, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Coverage I.D.; TEC, WBT



# **Cummins**Warranty

All Engines Worldwide All Bus (Except U.S./Canada Diesel Powered School Buses)

#### Coverage

#### **Products Warranted**

This Warranty applies to new diesel, LPG, compressed or liquid natural gas fueled Engines sold by Cummins and delivered to the first user on or after January 1, 1999, that are used in all bus categories Worldwide (except U.S./ Canada diesel powered school buses).

Base Engine Warranty

The Base Engine Warranty covers any failures of the Engine which result, under normal use and service, from a defect in material or factory workmanship (Warrantable Failure). This Coverage begins with the sale of the Engine by Cummins and ends two years after the date of delivery of the Engine to the first user.

Engine aftertreatment components included in the Cummins Critical Parts List (CPL) and marked with a Cummins part number are covered under the Base Engine Warranty.

**Extended Major Components Warranty** 

The Extended Major Components Warranty applies to all Engines except B and ISB Series Engines and covers Warrantable Failures of the Engine cylinder block, camshaft, crankshaft, connecting rods and Cummins fan clutch (Covered Parts).

Bushing and bearing failures are not covered.

This Coverage begins with the expiration of the Base Engine Warranty and ends three years or 300,000 miles (482,804 kilometers) or 10,800 hours of operation, whichever occurs first, after the date of delivery of the Engine to the first user.

**Emission Warranty** 

Additional Coverage is outlined under the Emission Warranty.

These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.

#### Cummins Responsibilities

**During The Base Engine Warranty** 

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay for reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

Cummins will pay reasonable cost for towing a disabled vehicle, or where mandated by local legislation, to the nearest authorized repair location when caused by a Warrantable Failure. In lieu of towing expense due to a Warrantable Failure, Cummins will pay reasonable cost for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging, when the repair is performed at the site of the failure.

**During The Extended Major Components Warranty** 

Cummins will pay for the repair or, at its option, replacement of the defective Covered Part and any Covered Part damaged by a Warrantable Failure of the defective Covered Part.

#### **Owner Responsibilities**

#### **During The Base Engine Warranty**

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items replaced during Warranty repairs unless such items are not reusable due to the Warrantable Failure.

**During The Extended Major Components Warranty** 

Owner is responsible for the cost of all labor needed to repair the Engine, including the labor to remove and reinstall the Engine. When Cummins elects to repair a part instead of replacing it, Owner is not responsible for the labor needed to repair the part.

Owner is responsible for the cost of all parts required for the repair except for the defective Covered Part and any Covered Part damaged by a Warrantable Failure of the defective Covered Part.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items replaced during the repair.

## During The Base Engine And Extended Major Components Warranties

Owner is responsible for the operation and maintenance of the Engine as specified in the applicable Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Except for Engines disabled by a Warrantable Failure during the Base Engine Warranty, the Owner must also deliver the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, fines, cargo damage, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

#### Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel as listed in the Cummins Fuel Bulletin #3379001 Table 1 (Cummins Inc. Required Diesel Fuel Specifications) can damage the Engine aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage. Fuel specifications also need to comply with local fuel regulations (EN590 for Europe and ASTM D975 for North America) for Warranty eligibility.

## Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:

EPA	max. 15 parts per million
2007/2010/2013/2017/2021	, ,
EPA Tier 4 Interim / Final /	max. 15 parts per million
Stage V in North America	
EU Stage IIIB 2011	max. 15 parts per million
EU Stage IV 2011	max. 15 parts per million
EU Stage V	max. 10 parts per million
Euro 4/5	max. 50 parts per million
Euro 6	max. 10 parts per million

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment system could negatively effect emissions certification and void the Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Excessive oil consumption for B Series Engines is covered for the duration of the Coverage or 100,000 miles (160,935 kilometers) or 7,000 hours from the date of delivery of the Engine to the first user, whichever of the three occurs first. Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Failures of belts and hoses supplied by Cummins are covered for the first year from the date of delivery of the Engine to the first user.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins. A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THESE WARRANTIES AND THE EMISSION WARRANTY SET FORTH HEREINAFTER ARE THE SOLE WARRANTIES MADE BY CUMMINS IN REGARD TO THESE ENGINES. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or country to country.

#### **Emission Warranty**

#### **Products Warranted**

This Emission Warranty applies to new diesel, LPG, compressed or liquid natural gas fueled Engines marketed by Cummins that are used in the United States\* or Canada in vehicles designed for transporting persons or property on a street or highway. This Warranty applies to Engines delivered to the first user on or after January 1, 1999.

#### Coverage

Cummins warrants to the first user and each subsequent purchaser that the Engine is designed, built and equipped so as to conform at the time of sale by Cummins with all U.S. federal emission regulations applicable at the time of manufacture and that it is free from defects in material or factory workmanship which would cause it not to meet these regulations within the longer of the following periods: (A) Five years or 100,000 miles (160,935 kilometers) of operation, whichever occurs first, as measured from the date of delivery of the Engine to the first user, or (B) The Base Engine Warranty.

If the vehicle in which the Engine is installed is registered in the state of California, a separate California Emission Warranty also applies.

#### Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel as listed in the Cummins Fuel Bulletin #3379001 Table 1 (Cummins Inc. Required Diesel Fuel Specifications) can damage the Engine and aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage. Fuel specifications also need to comply with local fuel regulations (EN590 for Europe and ASTM D975 for North America) for Warranty eligibility.

## Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:

EPA max. 15 parts per million 2007/2010/2013/2017/2021

EDA 7: -- 4 Interior / Final /

EPA Tier 4 Interim / Final / max. 15 parts per million

Stage V in North America

EU Stage IIIB 2011 max. 15 parts per million
EU Stage IV 2011 max. 15 parts per million
EU Stage V max. 10 parts per million
Euro 4/5 max. 50 parts per million
Euro 6 max. 10 parts per million

Failures, other than those resulting from defects in material or factory workmanship, are not covered by this Warranty.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment system could negatively effect emissions certification and void the Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Cummins is not responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

## CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

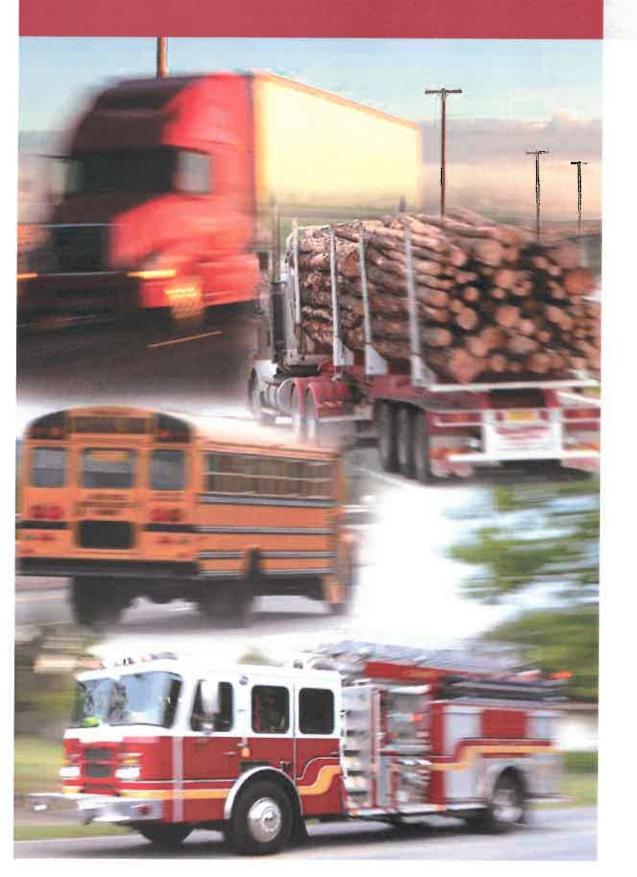
\* United States includes American Samoa, the Commonwealth of Northern Mariana Islands, Guam, Puerto Rico and the U.S. Virgin Islands.



# MERITOR® COMMERCIAL VEHICLE SYSTEMS

WARRANTY/MODEL YEAR 2019 VEHICLES







## WARRANTY INFORMATION CONTENTS

**Effective Model Year 2019 Vehicles** 

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#### **How to Read Warranty Coverage**

Number of Years	Mileage (in thousands)	P=Parts Only
	Unl=Unlimited	P&L=Parts & Labor

#### Notice:

Models or components that are approved for use by Meritor's vocational guidelines contained in Meritor Publication TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Unl/P).

Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

#### **Advantage Program**

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting www.meritor.com or by contacting Meritor at 866-OnTrac1 (866-668-7221).



#### LINEHAUL WARRANTY INFORMATION

#### **Linehaul Vehicles**

- Auto Hauler
- Bulk Hauler
- Chip Hauler (Truck)\*
- Doubles

- Flatbed
- General Freight
  Grain Hauler
- Livestock Hauler
- Moving Van
  Pipe Hauler

- Refrigerated Freight
- Tanker
- Triples

#### Linehaul Typically Is

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction
- Greater than 30 miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to DEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

#### Front Non-Drive Steer Axles - 5/750/P&L

FD-965	FF-967	MFS-12-122B-N	MFS-12-132C-N	MFS-13-122B-N	MFS-13B-122C-N
FF-941	FG-941	MFS-12-122C-N	MFS-12E-132B-N	MFS-13-122C-N	MFS-13B-132B-N
FF-942	FG-943	MFS-12E-122A-N	MFS-12E-132C-N	MFS-13-132B-N	MFS-13B-132C-N
FF-943	MFS-10-122A	MFS-12E-122B-N	MFS-12-143A-N	MFS-13-132C-N	MFS-14-122A-N
FF-944	MFS-10-143A-N	MFS-12E-122C-N	MFS-12E-143A-N	MFS-13-143A-N	MFS-14-124A-N
FF-961	MFS-10-144A-N	MFS-12-124A-N	MFS-12-144A-N	MFS-13-144A-N	MFS-14-143A-N
FF-966	MFS-12-122A-N	MFS-12-132B-N	MFS-13-122A-N	MFS-13B-122B-N	MFS-14-144A-N

#### Rear Drive Single Axles - 5/750/P&L

RS-19-144/145/A	RS-21-145	RS-23-160
MS-19-14X	RS-21-160	RS-23-161
MS-21-144	MS-23-17X	RS-23-186

#### **Drivelines**

5/500/P, 1/Unl/P&L
3/350/P, 1/Unl/P&L
1/Unl/P
1/Unl/P

#### Rear Drive Tandem/Tridem Axles - 5/750/P&L

RT-34-144/P/A	MA-40-165	MT-40-144/P
RT-40-145/A	MA-40-175	MT-40-943
RT-40-160/P <sup>1,2</sup>	MT-34-14X/P	MT-40-943-SP
RT-46-160/P <sup>1,2</sup>	MT-40-14X/P	RZ-166 <sup>2</sup>
RT-46-164EH/P1,2	MT-40-14X/P	RZ-188
RT-50-160/P1,2	MT-40-14XHE	

<sup>&</sup>lt;sup>1</sup> These models required for Chip Hauler and Linehaul warranty consideration.
<sup>2</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

<sup>\*</sup> Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.



#### LINEHAUL WARRANTY INFORMATION

#### **Brake Components**

Cam Q Series Trailer Brakes	5/500/P, 1/1 <b>00/</b> L
LX500 Feature <sup>1</sup>	5/ <b>750/P&amp;</b> L
Q+ Drum Brake™	5/500/P, 1/Unl/P&L
ASA	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-end	Components 1/Uni/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Un <b>i/</b> P
STEELite X30 Drum BrakeTM2	12-Years or Wearable Life/P
EX+ Air Disc Brake™	5/500/P, 1/Unl/L
EX+ Air Disc Brake Extended Standard	Warranty <sup>3</sup> 5/500/P&L
11 1 1 1 1 1 1	=

- <sup>1</sup> Includes: bushing, seal, cam, ASA lubrication and wear coverage of 3/500/P&L.
- <sup>2</sup> Based on stamped wear diameter max.
- 3 Applies only to MA761 friction material code CD brake assembly i.e. EX225LXXXCDXXX

#### **Trailer Axles**

Beam and Brackets	5/500/P, 1/100/L
Wheel End Systems <sup>1</sup>	
Standard System <sup>2</sup>	1/1 <b>00/P&amp;</b> L
PreSet by Meritor <sup>3</sup>	5/500/P&L
AxlePak54	5P/L
AylePak75	7P/L

- <sup>1</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.
- <sup>2</sup> When installed by Meritor.
- <sup>3</sup> Requires approved hubcap stating PreSet by Meritor on hubcap face.
- When specified with AxiePak5 wheel end system, coverage on MTIS thru-tee and stator is 5/Uni/P, 1/Uni/L.
- 5 When specified with AxiePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Uni/P, 1/Uni/L.

(For brake components and ABS coverage, refer to appropriate product warranties.)

#### TAG/Pusher Axles<sup>1</sup>

TQ, TQD, TR, TRD Beam and Brackets 5/750/P&L

For brake components and ABS Coverage, refer to appropriate product warranties.

#### Meritor Tire Inflation System by PSI

MTIS Components 5/Unl/P, 1/Unl/L

#### **Trailer Air Suspension Systems**

MPA38/40 (Tandem Axle Parallelogram) <sup>1</sup>	
Major Structural Components	5/500/P, 1/100/L
Curbing Damage Warranty <sup>2</sup>	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
	2/200/P, 1/100/L
Air Springs	
Bushings	7/700/P, 5/500/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	7/700/P, 5/500/L
MTA (Trailing Arm)	•
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs & Rebound Straps	2/200/P, 1/100/L
. •	5/500/P, 3/300/L
Bushings	3/30 <b>0/F, 3/3</b> 00/L

- <sup>1</sup> Fastener torque coverage is limited to 2/Uni/P&L when torqued by Meritor (For axie and ABS coverage, refer to appropriate product warranties.)
- <sup>2</sup> "Curbing damage" is defined as deformation (bending, buckling, or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers, and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferrable to another trailer VIN, and coverage does not apply if the trailer is deemed to be a total loss, scrapped, or otherwise not salvageable.



### **GENERAL SERVICE WARRANTY INFORMATION**

#### **General Service Vehicles**

- Auto Hauler
  Beverage Truck
  Chip Hauler

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- Cross Country Coach
  Flatbed
  Front Engine Commercial Chassis
  Front Engine Integral Coach
  Newspaper Delivery
- Front Engine Integral Coach
  General Freight

- 🎩 Pipe Hauler
  - Platform Auto Hauler
  - Rear Engine Integral Coach
    Recreational Vehicles
  - Refrigerated Freight
  - School Bus
    Stake Truck
  - Tanker

# Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

#### General Service Typically Is

Lower mileage operations (less than 60,000 miles/year)

Intercity Coach

Intermodal Chassis

Pick-Up and Delivery

Livestock Hauler

- Generally, on-road service (less than 10% off-road)
- MAN average of three (3) miles between starting and stopping

#### Front Non-Drive Steer Axles - 2/Unl/P&L

FD-965	FL-941	MFS-8-153B-N	MFS-12-132B-N	MFS-13-132B-N	MFS-16-135A-N
FF-941	FL-943	MFS-8-163B-N	MFS-12E-132B-N	MFS-13-132C-N	MFS-16-143A-N
FF-942	MFS-6-151A-N	MFS-10-122A	MFS-12-132C-N	MFS-13B-132B-N	MFS-18-133A-N
FF- <b>94</b> 3	MFS-6-153B-N	MFS-10-143A-N	MFS-12E-132C-N	MFS-13B-132C-N	MFS-18-135A-N
FF-944	MFS-6-162B-N	MFS-10-144A-N	MFS-12-143A-N	MFS-13-143A-N	MFS-18-193A-N
FF-946	MFS-6-153C-N	MFS-12-122A-N	MFS-12-144A-N	MFS-13-144A-N	MFS-20-133A-N
FF-961	MFS-6-162C-N	MFS-12E-122A-N	MFS-12E-143A-N	MFS-14-122A-N	MFS-20-135A-N
FF-966	MFS-7-113C-N	MFS-12-122B-N	MFS-13-122A-N	MFS-14-124A-N	MFS-20-193A-N
FF-967	MFS-7-153C-N	MFS-12E-122B-N	MFS-13-122B-N	MFS-14-143A-N	MFS-22-135A-N
FG-941	MFS-7-163C-N	MFS-12-122C-N	MFS-13B-122B-N	MFS-14-144A-N	MFS-22H-135A-N
FH-941	MFS-8-113B-N	MFS-12E-122C-N	MFS-13-122C-N	MFS-16-122A-N	MFS-22-193A-N
FH-9461	MFS-8-143A-N	MFS-12-124A-N	MFS-13B-122C-N	MFS-16-133A-N	MFS-22H-193A-N

<sup>&</sup>lt;sup>1</sup> Can also be used with reduced steer angles in tag position in Coach Applications.

#### Front Drive/Non-Drive Steer Axles - 1/Unl/P&L

FFNS-2200	FSD-12A	FSD-23A
FFNS-2300	FSD-13A	FSD-29A
FSD-08A	FSD-14A	SDA-1800
FSD-081	FSD-16A	SDA-2100
FSD-010A	FSD-20A	SDA-2300

#### Rear Drive Single Axles - 2/Unl/P&L

MS-17-13X	MS-21-14X	RC-23-160	RS-24-160	MS-30-616-SP
MS-17-14X	MS-21-144	RC-23-161	RC-25-160	RS-35-380
MS-19-13X	MS-23-17X	RC-23-1621	RS-26-185	71162
MS-19-14X	RS-21-145/A	RC-23-1651	MS-26-616	71163
RS-17-144/145/A	RS-21-160	RS-23-160	MS-26-616-SP	79163
RS-19-144/145/A	RC-22-145	RS-23-161	RS-30-185	
MS-21-13X	RC-22-145/A	RS-23-186	MS-30-616	

<sup>1 3/</sup>Unl/P&L if PreSet by Meritor.

#### Rear Drive Tandem/Tridem Axles - 2/Unl/P&L

MT-34-14X/P	RT-40-145/A	RT-52-1851
RT-34-144/P/A	MT-44-14X/P	MT-58-616
MT-40-14X/P	RT-44-145/P	RT-58-1851
MT-40-14XHE	RT-46-169	MT-70-380
MT-40-144/P	MT-52-616	R7-188

<sup>&</sup>lt;sup>1</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

## Rear Drive Tandem/Tridem - 3/Unl/P&L

Tanker Trailer

Tour Bus

■ Wrecker

RT-40-160/P	RT-50-160/P
RT-46-160/P	RZ-166
RT-46-164EH/P	

#### Rear Drive Axles = 1/Unl/P&L

11170	RND-14H
523	RND-16A

#### **Drivelines**

RPL	4/400/P, 1/Unl/P&L
MXL	3/350/P, 1/Uni/P&L
155N	1/Unl/P
92N	1/Unl/P

#### Transmission - 1/Unl/P&L

516 FAT 30

#### PTO - 1/Unl/P&L

318	526	PTO-1702
500	531	PTO-175
510	543	PTO-185
518	PTO-170	PTO-190



#### GENERAL SERVICE WARRANTY INFORMATION

#### **Brake Components**

Cam Q Series Trailer Brakes	3/Uni/P, 1/Uni/L
LX500 Feature <sup>1</sup>	3/Uni/P&L
Cam P <sup>3</sup>	2/200/P
Cam	3/Unl/P
Q+ Drum Brake™	3/Uni/P&L
Q+ Drum Brake TM3	2/200/P&L
ASA	3/Unl/P
ASA <sup>3</sup>	2/200/P
Hubs/Cast Drums and Other Wheel-end Com	ponents 1/Uni/P
Hydraulic Disc Brakes	1/Un!/P
All Other Brakes	1/Uni/P
STEELite X30 Drum BrakeTM2	12-Years or Wearable Life/P
EX+ Air Disc BrakeTM	2/Uni/P&L
<sup>1</sup> Includes: bushing, seal, cam, ASA lubrication an	nd wear coverage of 1/UnI/P.

<sup>&</sup>lt;sup>2</sup> Based on stamped wear diameter max.

#### **Trailer Axles**

Beam and Brackets <sup>1</sup>	5/Uni/P, 1/Uni/L
Wheel End Systems <sup>2</sup>	
Standard System <sup>3</sup>	1/Uni/P&L
AxlePak54	5/P&L
AxlePak7 <sup>5</sup>	7/P&L
1 0000 0 1 1: 0 # I - I # I - I # I	

<sup>1 9000</sup> Series is 3/Uni/P, 1/Uni/L

(For brake components and ABS coverage, refer to appropriate product warranties.)

#### Chassis Axles (2000 Series/ChassiPak)

Beam & Brackets			6/Uni/P, 1/Uni/L
Wheel End Systems <sup>1</sup>			
Standard System			1/Unl/P&L
AxlePak7			7/P&L
Beam and Brackets			7/P, 1/L
	 	•	

Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

#### **Trailer Air Suspension Systems**

MPA38/40 (Tandem Axle Parallelogram) <sup>1</sup>	
Major Structural Components	5/Unl <b>/P,</b> 1/Unl/L
Curbing Damage Warranty <sup>2</sup>	5/500/P, 1/100/L
Height Contro! Valve	1/Unl/P&L
Shock Absorbers	2/Uni/P&L
Air Springs	2/Uni/P, 1/Uni/L
Bushings	7/700/P, 5/500/L
PinLoc Air Controls	1/Uni/P&L
PinLoc Air Actuator	3/Uni/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Uni/P&L
Shock Absorbers	2/Uni/P&L
Air Springs	2/Uni/P, 1/Uni/L
Bushings	7/700/P, 5/500/L
MTA (Trailing Arm)	-
Major Structural Components	5/Uni/P, 1/Uni/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings <sup>3</sup>	5/Uni/P, 3/Uni/L

(For axie and ABS coverage, refer to appropriate product warranties.)

#### **TAG/Pusher Axies**

TQ, TQD, TR, TRD Beam and Brackets<sup>1</sup> 3/Unl/P, 1/Unl/L MC14002, MC16003, FH946 2/Unl/P&L (For brake components and ABS coverage, refer to appropriate product warranties.)

<sup>1</sup> 3/Unl/P&L if sold with PreSet by Meritor.

#### Meritor® Tire Inflation System by PSI

MTIS Companents 5/Uni/P, 1/Uni/L

<sup>3</sup> Applies to Tour Bus and Cross Country Coach only.

<sup>&</sup>lt;sup>2</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

<sup>3</sup> When installed by Meritor.

When specified with AxiePak5 wheel end system, coverage on MTIS thru-tee and stator is 5/UnI/P. 1/UnI/L.

When specified with AxlePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

<sup>&</sup>lt;sup>1</sup> Fastener torque coverage is limited to 2/UnI/P&L when torqued by Meritor <sup>2</sup> "Curbing damage" is defined as deformation (bending, buckling, or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers, and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferrable to another trailer VIN, and coverage does not apply if the trailer is deemed to be a total loss, scrapped, or otherwise not salvageable.

<sup>3</sup> Raw wood applications 3/Uni/P, 1/Uni/L



#### **HEAVY SERVICE WARRANTY INFORMATION**

#### **Heavy Service Vehicles**

- Airport Rescue Fire Fighting (ARFF)
- Airport Shuttle\*
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Mixer
- Demolition
- Drill Rig
- \*Commercial chassis only

- Dump
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler

- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rear Loader (Refuse)
- Recycling Truck
- Residential Pick-Up (Refuse)
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus\*
- Side Loader
- Snowplow/Snowblower

- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Utility Truck
- Winch Truck

#### Heavy Service Typically Is

- Moderate mileage operation (less than 60,000 miles per year)
- On/Off road vocations (10% or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/ or contact Meritor regarding specific application approval questions on any product line.

#### Front Drive/Non-Drive Steer Axles - 2/Unl/P&L

FD- <del>9</del> 65	FL-941	MFS-10-143A-N	MFS-12-143A-N	MFS-13-144A-N	MFS-18-193A-N	MX-12-120 EVO
FF-941	FL-943	MFS-10-144A-N	MFS-12-144A-N	MFS-13-155	MFS-20-133A-N	MX-14-120
FF-942	MFS-6-151A-N	MFS-12-122	MFS-12-155	MFS-14-122	MFS-20-135A-N	MX-16-120
FF-943	MFS-6-153B	MFS-12E-122	MFS-13-122	MFS-14-124A-N	MFS-20-193A-N	MX-18-120
FF-944	MFS-6-162B	MFS-12-122B-N	MFS-13-122B-N	MFS-14-143A-N	MFS-22-135A-N	MX-17-140
FF-946	MFS-6-162C	MFS-12E-122B-N	MFS-13B-122B-N	MFS-14-144A-N	MFS-22H-135A-N	MX-19-140
FF-961	MFS-7-113C-N	MFS-12-122C-N	MFS-13-122C-N	MFS-16-122A-N	MFS-22-193A-N	MX-21-140
FF-966	MFS-7-153C-N	MFS-12E-122C-N	MFS-13B-122C-N	MFS-16-133A-N	MFS-22H-193A-N	MX-21-160
FF-967	MFS-7-163C-N	MFS-12-124A-N	MFS-13-132B-N	MFS-16-135A-N	RF-16-145	MX-23-160
FG-941	MFS-8-113B-N	MFS-12-132B-N	MFS-13B-132B-N	MFS-16-143A-N	RF-21-160	MX-810
FG-943	MFS-8-153B-N	MFS-12E-132B-N	MFS-13-132C-N	MFS-18-133A-N	MX-10-120	
FH-941	MFS-8-163B-N	MFS-12-132C-N	MFS-13B-132C-N	MFS-18-135A-N	MX-10-120 EVO	
FH-946	MFS-10-122A	MFS-12E-132C-N	MFS-13-143A-N	MFS-18-192A-N	MX-12-120	

#### Front Drive/Non-Drive Steer Axles - 1/Unl/P&L

FFNS-2200	FSD-12A	FSD-23A
FFNS-2300	FSD-13A	FSD-29A
FSD-08A	FSD-14A	SDA-1800
FSD-081	FSD-16A	SDA-2100
FSD-010A	FSD-20A	SDA-2300

RS-23-186/380

#### Rear Drive Single Axles - 2/Unl/P&L

RS-21-145/A

MS-17-14X	RS-21-160	RS-24-160	MS-35-380
RS-17-144/145/A	RC-22-145	RS-25-160	RS-38-380
MS-19-14X	RC-23-160	MS-26-616	RC-25-160
RS-19-144	RH-23-160	MS-26-616-SP	RC-26-633
MS-21-114	RS-23-160	RS-26-185/380	MT-58-616
MS-21-14X	RC-23-161	MS-30-616	MT-58-616-SP
RS-21-145	RS-23-161	MS-30-616-SP	

RS-30-185/380

#### Rear Drive Axles - 1/Uni/P&L

11170	RND-14H
523	RND-16A

#### **Drivelines**

RPL	3/Uni/P, 1/Uni/P&L
92N	1/Uni/P&L
MXL	1/Uni/P&I

#### Transmission – 1/Unl/P&L

516 FAT 30

#### PTO - 1/Uni/P&L

318	526	PTO-1702
500	531	PTO-175
510	543	PTO-185
518	PTO-170	PTO-190



#### HEAVY SERVICE WARRANTY INFORMATION

#### Rear Drive Tandem/Tridem Axles - 2/Unl/P&L

MT-58-616 MT-34-14X/P RT-44-145/P RT-46-169 MT-58-616-SP RT-34-144/P/A RT-58-185/38012 MT-52-616 MT-40-14X/P MT-52-616-SP RT-70-380 RT-40-145/A MT-70-380 RT-52-185/3801,2 MT-44-14X/P

#### **Brake Components**

Cam P	3/Uni/P
Cam P <sup>3</sup>	2/100/P
Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake <sup>TM2</sup>	2/100/P&L
ASA	3/UnI/P
ASA <sup>2</sup>	2/100/P
Hubs/Cast Drums and	
Other Wheel-end	
Components	1/Un <b>i/</b> P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake	2/100/P&L
1 Rased on stamped wear diameter may	t.

#### Rear Drive Tandem/Tridem -3/Unl/P&L

RT-40-160/P/A3 RT-46-160/P/A13 RT-46-164EH/P/A23 RT-50-160/P/A3 RZ-166

<sup>1</sup> U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

2 Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

3 Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

#### **Meritor Tire Inflation System** by PSI

MTIS Components	5/Unl/P, 1/Unl/L
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#### **Trailer Air Suspension Systems**

**RZ-188** 

MTA (Trailing Arm)

Major Structural Components<sup>1</sup> 5/Uni/P, I/Uni/L 1/Uni/P&L **Height Control Valve** 2/Unl/P&L Shock Absorbers 2/Unl/P, 1/Unl/L Air Springs Bushings1 5/UnI/P. 3/UnI/L

1 Raw wood applications 3/Uni/P, 1/Uni/L (For axle and ABS coverage, refer to appropriate product warranties.)

#### **Trailer Axles**

5/Uni/P, 1/Uni/L Beam and Brackets<sup>1</sup> Wheel End Systems<sup>2</sup> Standard System<sup>3</sup> 1/Unl/P&L

1 9000 Series is 3/Unl/P, 1/Unl/L.

<sup>2</sup> includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

3 When installed by Meritor.

(For brake components and ABS coverage, refer to appropriate product warranties.)

#### Gearboxes - 1/Unl/P&L

240	376	448	506	528	546
279	377	456	514	533	550
279D	378	478	519	534	
280	380	480	520	536	
285	384	487	522	537	
292	402	488	524	541	
314	413	505	527	545	

#### Transfer Cases - 1/Unl/P

MTC-4208	306	450	490	540	TC-137	TC-200
MTC-4210	315	451	496	548	TC-142	TC-237
MTC-4213	358	461	504	549	TC-143	TC-270
T-2111	379	469	512	555	TC-170	TC-28
T-2119	410	479	525	RB-170	TC-1701	TC-38
11258	419	484	529	RB-180	TC-1702	
245	449	486	538	RTC-50	TC-180	

<sup>1</sup> Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

<sup>&</sup>lt;sup>2</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

<sup>&</sup>lt;sup>2</sup> Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

<sup>3</sup> Warranty for all non-Meritor ASAs supplied by Meritor for all Heavy Service vocations is 1/100/P.



#### FIRE AND EMERGENCY WARRANTY INFORMATION

#### Fire and Emergency Vehicles

Aerial Ladder Truck

Aerial Platform Rapid Intervention Vehicle (RIV)

**III** Pumper

MAmbulance Tanker

Command Vehicle

Crash Fire Rescue (CFR)

#### Fire and Emergency Typically Is

- Lower mileage operations (less than 20,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

#### Front Non-Drive Steer Axles - 5/Unl/P&L

FL-941	MFS-18-193A-N	MFS-22-135A-N
FL-943	MFS-20-133A-N	MFS-22H-135A-N
MFS-18-133A-N	MFS-20-135A-N	MFS-22-193A-N
MFS-18-135A-N	MFS-20-193A-N	MFS-22H-193A-N

#### Front Drive Steer Axles - 2/Unl/P&L

MX 19140	MX 21160	MX 23810
MY 21140	MV 22160	

#### Rear Drive Single Axles - 5/Unl/P&L

RC-23-160	RS-23-186	RS-26-185	RS-25-160
RS-23-160	RS-24-160	RS-30-185	
RS-23-161	RC-25-160	RS-35-380	

<sup>1 3/</sup>Unl/P&L if PreSet by Meritor.

#### Rear Drive Tandem/Tridem Axles - 5/Unl/P&L

MT-40-14X/P	RT-44-145/P	MT-52-616
MT-40-144/P	RT-46-160/P	RT-52-1851
RT-40-145/A	RT-46-164EH/P	MT-58-616
RT-40-160/P	RT-46-169	RT-58-1851
MT-44-14X/P	RT-50-160/P	MT-70-380

<sup>&</sup>lt;sup>1</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

#### **Brake Components**

Cam	3/Unl/P
Q+ Drum Brake <sup>TM</sup>	3/Un1/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Uni/P
EX+ Air Disc Brake™	2/Uni/P&L
1 Includes: bushing, seal, cam, ASA lubrication and wear coverage	

#### **Drivelines**

RPL	4/400/P, 1/Unl/L
MXL	3/350/P, 1/Uni/L
155N	1/Unl/P
92N	1/Unl/P

#### Transfer Cases - 1/Unl/P

MTC 4208	T-2111
MTC 4210	T-2119
MTC 4213	



### TRANSIT BUS WARRANTY INFORMATION

### **Transit Bus Vehicles**

Airport Shuttle Shuttle Bus Transit Bus Commuter Coach Trolley

### **Transit Bus Typically Is**

- Moderate mileage operation (less than 50,000 miles per year)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axies, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

### Front Drive/Non-Drive Steer Axles - 5/300/P&L

FH-946 MFS-12-155 FH-941¹ MFS-13-155 ¹ Commuter coach only – 2/Unl/P&L

### Rear Drive Single Axles - 5/300/P&L

RS-23-160 79163 RS-21-160
RC-23-161 RC-23-1621
71163 RC-23-1651
1 Commuter coach only – 2/Uni/P&L

### **Brake Components**

 Cam Cast Plus™
 2/100/P&L

 Q+ Drum Brake™¹
 2/100/P&L

 ASA¹
 2/100/P

Hubs/Cast Drums and Other Wheel-end

Components 1/UnI/P
All Other Brakes 1/UnI/P
EX+ Air Disc Brake 2/100/P&L

Applies to City Bus, Trolley, Shuttle Bus and Airport

Shuttle only.

### **Drivelines**

RPL 3/Uni/P, 1/Uni/L 92N 1/Uni/P&L MXL 1/Uni/P&L

### Tag Axles - 2/Uni/P&L

MC 14002 MC 16003 FH-946

### Center Non-drive Axles - 5/300/P&L

MC26000 71063 79063



### **OFF-HIGHWAY SERVICE WARRANTY INFORMATION**

### **Industrial And Off-Highway Service Vehicles**

- Load-On/Load-Off Yard Jockey Port Tractor All-Terrain Crane Rail Yard Spotter Rough Terrain Crane Rell-On/Roll-Off Forestry
- Stevedoring Tractor Material Handling Trailer Spotter Specialized Heavy Haul
- Specialized Mining Rail Car Mover Excavator Compactor Fertilizer Spreader Snow Blower
  - Loader Tow Tractor Pushback Tractor

### Industrial And Off-Highway Service Typically Is

- Low mileage operation
- Low speed vehicle speed restriction
- Vehicles are not typically licensed for highway use
- Six (6) starts/stops per mile (typical)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

### Drive Steer Axles - 1/Unl/P

MOR MOX MOC

### Drivelines - 1/Unl/P

Mining

RPL MXI.

### Front Non-Drive Steer Axles - 1/Unl/P

FF - 941	MFS-13-143A-N	MFS-20-133A-N
FF - 943	MFS-13-144A-N	MFS-20-135A-N
FF - 961	MFS-14-143A-N	MFS-20-193A-N
FF - 966	MFS-16-122A-N	MFS-22-135A-N
FG - 941	MFS-16-133A-N	MFS-22H-135A-N
FG - 943	MFS-16-135A-N	MFS-22-193A-N
FL - 941	MFS-16-143A-N	MFS-22H-193A-N
FL - 943	MFS-18-133A-N	MON-ZO FAMILY
MFS-12-143A-N	MFS-18-135A-N	
MFS-12-144A-N	MFS-18-193A-N	

### **Brake Components**

Cam P	3/Unl/P
Q+ Drum Brake™	3/Uni/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-end Components	1/Uni/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P

RT-44-145/P

RT-46-160/P

RT-46~164EH/P

RT-50-160/P

RZ-166

### Rear Drive Single Axles - 1/Unl/P

RS-23-186	RS-24-160-SP	RS-30-185
RS-23-380	MS-30-616	RS-30-380
RS-24-160	MS-30-616-SP	MS-35-380

### Planetary Axles - 1/Unl/P

MT-44-14X/P

MT-52-616-SP

MT-52-616

MOR MOX MOC MOT

Gearboxes - 1/Unl/P&L

240	376	448
279	377	456
279D	378	478
280	380	480
285	384	487
292	402	488
314	413	505

### Rear Drive Tandem Axles - 2/Uni/P MT-58-616

MT-58-616-SP

MT-70-380

506	528	546
514	533	550
519	534	
520	536	
522	537	
524	541	
527	545	

### Transfer Cases - 1/Unl/P

MTC-4208 MTC-4210	306 315	450 451	490 496	540 548	TC-137 TC-142	TC-200 TC-237
MTC-4213	358	461	504	549	TC-143	TC-270
T-2111	379	469	512	555	TC-170	TC-28
T-2119	410	479	525	RB-170	TC-1701	TC-38
11258	419	484	529	RB-180	TC-1702	
245	449	486	538	RTC-50	TC-180	



### TERMS AND CONDITIONS

### **Coverage Exclusions**

### **Product Description**

### All

The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine Meritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.

For axle assemblies supplied by Meritor with suspension and interface brackets designed and/or attached by non-Meritor parties, Meritor warranty coverage does not apply to the brackets, bracket attachment methods, and field issues caused by brackets or bracket attachments to any covered component unless specified in a separate OEM agreement.

#### Front Axles

King Pin Bushings.

#### Rear Axles

Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Eaton.

#### ASA

Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.

### Cam Brake

Brake lining wear and brake shoe "rust-jacking."

### Disc Brake

Pad wear, rotor wear.

### Coverage Limitations

### **Product Description**

#### All

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program. Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

#### Front Axies

Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

#### Rear Axles

Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by Meritor. If yoke is not installed by Meritor, then Meritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

#### Rear Axles

The Meritor® breather part number A-2297-C-8765 with A-3196-J-1336 hose must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axies.

#### Cam Brake

Limited to bracket, brake spider and camshaft structural integrity.

#### STEELite X30

Wearable life is up to the discard diameter of the drum.

#### Risc Brake

Warranty coverage for boots, seals, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.

Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your Meritor representative for specific details.

### TERMS AND CONDITIONS

### (1) What is Covered by this Commercial Warranty?

Meritor Heavy Vehicle Systems, LLC warrants to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM's vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see Meritor publication Maintenance Manual Number I and the applicable Meritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

#### (2) Designation of Vocational Use Required.

To obtain warranty coverage, each Owner must notify Meritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the Meritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with Meritor directly. Failure to notify Meritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify Meritor as to the intended vocational use of the vehicle. This notification can be sent directly to Meritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under Meritor's warranty requires that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

#### (3) What is the Cost of this Warranty?

There is no charge to the Owner for this warranty.

#### (4) What is not Covered by this Warranty?

This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by Meritor), (II) accident, natural disaster, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the axle and/or driveline capacity), or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals, or lube levels). This warranty does not cover any component or part that is not branded by Meritor. For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/UnI/P) will apply.

#### (5) Remedy.

The exclusive remedy under this warranty shall be the repair or replacement of the defective component at Meritor's option. Meritor reserves the right to require that all applicable failed materials are available and/or returned to Meritor for review and evaluation.

#### (6) Disclaimer of Warranty.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

### (7) Limitation of Remedies.

In no event shall Meritor be liable for special, incidental, indirect, or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes, or any other losses or costs resulting from a defective covered component.

#### (8) To Obtain Service.

If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either Meritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized Meritor service location. The dealer will inspect the vehicle and contact Meritor for an evaluation of the claim. When authorized by Meritor, the dealer will repair or replace during the term of this warranty any defective Meritor component covered by this warranty.

#### (9) Entire Agreement.

This is the entire agreement between Meritor and the Owner about warranty and no Meritor employee or dealer is authorized to make any additional warranty on behalf of Meritor. This agreement allocates the responsibilities for component failure between Meritor and the Owner.

Product models, brands, names and trademarks depicted herein are the property of their respective owners and, except where otherwise indicated, are not in any way associated with Meritor Heavy Vehicle Systems, LLC, or any parent or affiliate, thereof.



	io National (Califor nicle Manufacturer	nia), Inc.				
RFP Part <u>IV</u>	_Section Number	39Section	Title <u>Fleet</u>	Defects		
Describe Requ	ıest. Include appro	priate support	ing docume	ntation as outli	ned in the RFP:	
occurring in th	In question: is defined as the fa ne warranty period nder, the fleet defe	in a proportion	of the buse	es delivered und		
Approval requirements. Per the states: A Flee in the same or are covered by bus fleet. Plea	rification or Approvested for the deleted APTA SBPG, the aft Defect is defined a similar application y warranty. For the se note that per yoree (3), four (4) while	ion of this requorementioned as cumulative in a minimum purpose of Flegur specification	clause is sp failures of to fleet size o eet Defects, n GPTD plar	ecific to orders oventy-five (25) p f twelve (12) or each option ord s to order a bas	of 12 or more buse percent of the sam more buses where er shall be treated e order of eleven (	es. SBPG e components e such items I as a separate (11) in groups
GPTD Respons	se:					
Approved: 🗓	Denied:	<b>1</b>	Noted:			
Comments: Optional Order Shall	orders exceed be acti	exceed 12 vated	12 puscs	buses fleet	Should	total
	GP_			_	3/1/22	-

Date

Signature of GPTD Official

CBS / ElDorado N	lational (California), in	<u>c.</u>	
Proposer/Vehicle	Manufacturer		
RFP Part <u>IV</u> Sec	tion Number 40	Section Title <u>Scope of W</u>	/arranty Provisions
Describe Request	. Include appropriate s	upporting documentati	on as outlined in the RFP:
			omponents will be equal to the warranty
	ation or Approved Equa ded that ENC does not		stend the warranty of components for OEM
GPTD Response: Approved: 🗹	Denied: 12	Noted M	<u>.                                    </u>
Approved. II	Denied: 16	Noted: Vi	
Comments:			7/2/00
Signature of COTO	Official and		3/7/22
Signature of GPTD	OTTICIAL		Date

CBS / ElDorado Na Proposer/Vehicle	<u>ational (California), Inc</u> Manufacturer	<u> </u>	
RFP Part  V_Sect	ion Number <u>34</u> S	ection Title Warranty R	equirements
Describe Request.	Include appropriate su	upporting documentation	on as outlined in the RFP:
Specification in qu	estion:		
The Contractor's wany component or the warranty perio appropriate and tirmust be identified 34.  Question/Clarifica Approval requested suppliers needs to 1. Cummins Engine 2. Allison Transmiss 3. Thermo King HV. 4. Meritor Axles ENC cannot provide they administer the the bus and will worther the suppliers and the suppliers needs to 1. Cummins Engine 2. Allison Transmiss 3. Thermo King HV. 4. Meritor Axles ENC cannot provide they administer the the bus and will worther the suppliers and the sup	arranty service represessubcomponent on the d (i.e., engine), the Distinct response from the in the Contractor's written or Approved Equation of the delegation of the passed through:  sion AC  e warranty restitution of the own warranty. ENC	bus. For example, if a contrict will contact the Coret component or subcontten warranty policy subcented warranty claims responsible for a	e contact for all warranty issues related to emponent or subcomponent fails during nitractor, who will then ensure an imponent manufacturer. This requirement omittal (see Warranty Provisions, Section sibility for the following component entioned major component suppliers as ill warranty restitution on the balance of iters when local vendors are unable or
GPTD Response:		-	
Approved:	Denied: 🛭	Noted: 🛽	
Comments:			
<u>Ct</u>	<u> </u>		3/3/22
Signature of GPTD	Official		Date

Proposer/Vehicle Ma	•••	<u>c.</u>	
RFP Part IV Section	n Number <u>34</u>	Section Title Warranty Req	<u>juirements</u>
Describe Request. In	clude appropriate s	supporting documentation	as outlined in the RFP:
	rrant and guarantee ted defects for one		s part of this procurement will be free whichever comes first, beginning on the
Question/Clarification Approval requested for complete bus.			is ENC's standard warranty for the
GPTD Response:			
Approved: 🛽	Denied: 🛚	Noted:	
Requested Warranty	Warranty may b	1 is 1 year De proposed	Additional but is
NOT requ	MECH		
(GP)			3/3/22

Date

Signature of GPTD Official

Proposer/Vehicle	<u>ational (Calitornia), i</u> Manufacturer	<u>nc.</u>	
RFP PartIV_Sect	ion Number 20	_Section Title <u>S</u>	gnage and Commination
Describe Request.	Include appropriate	supporting do	umentation as outlined in the RFP:
Specification in qualification in qualification Displays The Transit Information		el # OBIC T 10P 2	L meets these criteria.
Clarification provide out to alternative v	vendors that could do	on Information uplicate your int	Products has gone out of business. ENC has reached erior onboard information station. Is this acceptable se so adequate pricing can be supplied.
GPTD Response:			
Approved: 🖪	Denied: 🛚	Noted	: <b>X</b>
Comments:	this item	from	specification
6			313122
Signature of GPTD	Official		Date

CBS / ElDorado Natio		Inc.	
Proposer/Vehicle Mar	nufacturer		
RFP PartIV_Section	Number <u>27</u>	Section Title <u>Batteries</u>	- 10
Describe Request. Incl	ude appropriate	e supporting documentation	as outlined in the RFP:
	nds and cables s	shall be color-coded with red fermediate voltage cables.	or the primary positive, black for
	r the battery ter		r-coded with brown for primary
GPTD Response:		***	
Approved: 🛽	Denied: 🏻	Noted: 🛚	
Comments:			
(GP)			3(3/22
Signature of GPTD Office	cial		Date

CBS / ElDorado National (California), Inc.

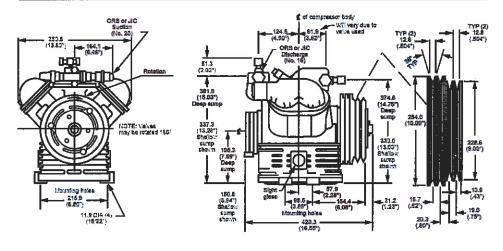
Proposer/Vehicle Manufacturer

RFP Part IV Section I	Number <u>19</u> Sec	tìon Title <u>Heating Venti</u>	lating and Air Conditioning
Describe Request. Incl	ude appropriate supp	porting documentation	as outlined in the RFP:
percent. There shall be Question/Clarification	ince if in direct sunlight with no passengers on booth or Approved Equal:	eard, and the doors shall	e at 100° F and humidity less than 20 I be closed. King Corp, that Thermo King uses steam
pots and electric heate ductwork, and airflow.	rs in the bus for passo The bus cannot be to	enger loads. Test results ested while in direct sur	s depend on bus configurations/ nlight as specified, as we use a test cell, Thermo King's standard testing
GPTD Response:			
Approved:	Denied: 🛽	Noted: 🗉	
Comments;			
Signature of GPTD Office	ial		<u>3/3/22</u> Date

### **Bus Air Conditioning Compressor and Clutch Specifications**

Compressor	Model X426	Model X430
Displacement	426 cu. cm (25.9 cu. in.)	492 cu. cm (30 cu. in.)
Number of cylinders	4	4
Maximum BHP	19 BHP (R-134a) 29 BHP (R-22/R-407C)	19 BHP (R-134a) 29 BHP (R-22/R-407C)
Maximum speed	3,000 rpm (R-134a) 3,000 rpm (R-22/R-407C)	3,000 rpm (R-134a) 3,000 rpm (R-22/R-407C)
Refrigerant	R-134a R-22/R-407C	R-134a R-22/R-407C
Oil capacity	4.2 liter (8.9 pints)	4.2 liter (8.9 pints)
Oil pump	Gerotor type	Gerotor type
Oil type	TK Part No. 67-404 (R-22) Alkybenzene TK Part No. 203-513 (R-134a/R-407C) Polyolester	TK Part No. 67-404, (R-22) Alkybenzene TK Part No. 203-513 (R-134a/R-407C) Polyolester
Maximum tilt	10° any direction	10° any direction
Drive method	Belt or direct	Belt or direct
Max. belt side loading	136 kg (300 lbs.)	136 kg (300 lbs.)
Operating Conditions		
Max. discharge temp.	162.8°C (325°F)	162.8°C (325°F)
Max. saturated suction temp.	12.7°C (55°F)	12.7°C (55°F)
Max, saturated discharge temp.	68.3°C (155°F)	68.3°C (155°F)

### **Dimensions:** millimeters (inches)



#### Clutch Assembly Electro-magnetic Type Voltage 12V dc/24V dc Current draw 5.0 amps/2.5 amps Engagement speed 0 to 3,000 rpm (X426/X430) Drive pulley O.D. 229 mm (9.0 in.) 197 mm (7.75 in.) Available B type, 2 groove belt types 5V, 2 groove Rotation Clockwise or counterclockwise (clutch end) 80 ft. lbs. Peak torque

### Weight: (approximate)

Model X426 52.2 kg (115 lbs.) Model X430 52.2 kg (115 lbs.) (Including oil, service valves and clutch)

### Worldwide Service Organization

Thermo King backs its equipment and customers with a highly-trained, worldwide service organization. This assures you the support of factory authorized service facilities and a stock of factory parts and factory trained mechanics.

### **Warranty Summary**

Terms of the Thermo King Warranty are available on request from your local Thermo King dealer. Please reference document TK50049 for the Thermo King Bus Unit Warranty.

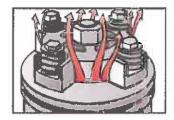


Providing equipment and services to manage controlled-temperature environments for food and other temperature-sensitive products, our Climate Control Technologies sector encompasses both transport and stationary refrigeration solutions. Our product brands include Thermo King°, a world leader in transport temperature control systems, and Hussmann°, a manufacturer of refrigeration and food merchandising equipment.

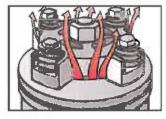
# How Thermo King compressors

# help lower operating costs.

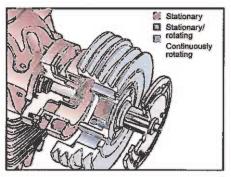




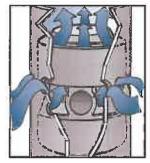
During normal operation, the discharge valve lifts to allow compressed gas to exit the cylinder.



Under abnormal conditions, when extreme pressure is created by liquid refrigerant or oil entering the cylinder, the entire discharge valve cage lifts to vent the excessive pressure. This 2-stage pressure relief system helps extend overall compressor life.

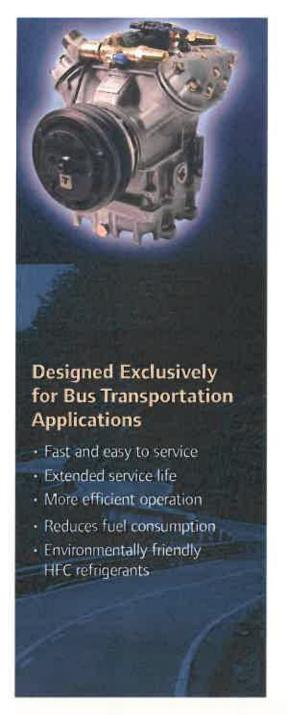


Weight of the clutch and belt side load is supported directly by the rigid compressor body. Only the friction plate and retaining bolt are mounted on the shaft, reducing the amount of stress on the crankshaft, increasing overall life of other compressor components.



Cool refrigerant gas enters the chamber around and through the piston, reducing the operating temperature and resulting in a cooler, more efficient running compressor.

- Body mounted clutch reduces wear on compressor parts.
- Magnetic clutch design saves fuel.
- Epoxy sealed dutch coil for lower maintenance.
- Mounting of dutch bearing ensures even wear, protects against premature wear.
- ✓ Double row ball bearings add strength, longer life.
- Teflon grease seals increase bearing life.
- Ease of lubrication reduces maintenance time.
- Friction plate air gap easily adjusted.
- Pulley face is easily reconditioned.
- Stainless steel bellows seal for improved reliability.
- Multiple sight glass assures vision will not be blocked when checking oil.
- Deep oil sump results in fewer breakdowns, longer compressor life.
- Suction strainer and refrigerant oil filter prevent recirculation of harmful particulates, extends compressor life.
- Check valves limit oil escape, increases lubrication during startup, extends compressor life.
- Spring-loaded discharge valve cage relieves pressure if hydraulic pressure develops in cylinder.
- Free-floating suction and discharge valve reeds allow greater gas flow.
- Replaceable cylinder sleeves allow overhauling without reboring, lowers cost of repairs.
- Vanasil alloy ringless pistons for long life performance and high pumping efficiency.
- Gas cooling lowers piston operating temperature, extends compressor life.
- Gerotor oil pump extends compressor operating life.
- Drilled oil passages through crankshaft deliver positive lubrication to bearing surfaces extending bearing life.
- Forged steel crankshaft and connecting rods add strength, increase compressor life.
- Field-replaceable crankshaft ball bearings, rather than bushings, results in less expensive overhauls.
- Lightweight aluminum body transfers heat rapidly for cooler, more efficient operation.



# Lower your **operating costs.**

Today, in the bus transportation business, "operating costs" are critically important. Finding ways to reduce operating costs will have a positive influence on profitability. Thermo King understands that, which is why you should know all the ways Thermo King compressors work to keep your operating costs down. Here's how:

# Engineered exclusively for transport applications

Built for continuous duty, reliable operation, and long life in an environment that features extreme fluctuations in operating temperatures, constant shock and vibration, dirt, dust, and other potential contaminants. Reliability translates directly to less downtime and lower operating costs.

### **Built for extended service life**

Thermo King compressors have been designed and built for extended service life. And fewer repairs mean lower parts and labor costs.

### Reduces fuel consumption

The Thermo King unique clutch system allows cycling at any engine speed. This allows the compressor to disengage when cooling isn't needed, reducing the load on the bus engine and conserving fuel. The compressor is sized to provide capacity, but not oversized to where it increases fuel consumption and operating costs.

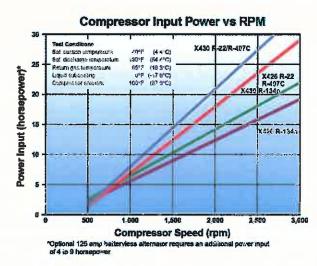
# Less wear and tear on bus transmission and engine

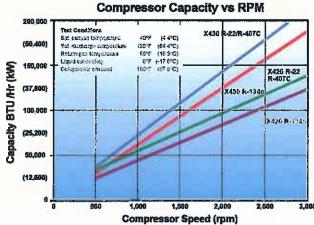
The in-line, V-type, four-cylinder reciprocating design of Thermo King compressors, coupled with top center positioning of pistons every 90 degrees relative to the crankshaft, results in smooth even torque load on the bus transmission and engine crankshaft for longer life, fewer repairs, fewer replacement parts, and fewer man hours in repair.

### Fast and easy to service

A Thermo King compressor can be completely overhauled by one mechanic (using common shop tools) in less than four (4) hours, without the need for complicated and costly machining.

### How environmentally friendly refrigerants perform.







Ingenoil Rand's Climate Solutions sector delivers energy efficient HVACR solutions for customers globally. Its world class brands include Thermo King, the leader in transport temperature control and tissue, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and horizes.

Distributed by:



# X426 and X430 Compressor and Clutch

Air conditioning compressors and clutches for bus applications.

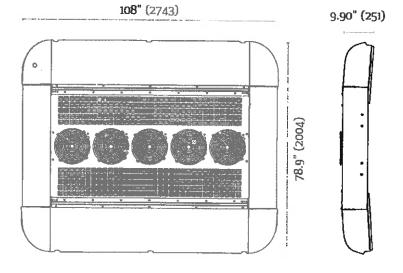




### **SPECIFICATIONS**

SYSTEM	COOUNG CAPACHY (RATED CAPACHIES)	ATHENIA ANTII 960	ATHENIA AM II 1000
BTU/hr		92,000	113,000
kW		30	33.1
Kcal/hr	App. Date served \$100 to 100 t	23,183	28,476
Rated cap	pacities are at following conditions:	THE RESERVE AND A SECOND PORT OF THE PROPERTY	manner interestration as a comment of the second secondary is
Outside	35°C/95°F	The state of the s	along processors, pages of the second processes of the second sec
Inside	27°C/80°F DB		AN AN AN AN AN AN AN AN AN AN AN AN AN A
	19°C/67°F WB		

SYSTEM HEARING CARACTER		
	100°F) temperature differential between return air and coolan	
BTU/hr	115,000	IL.
kW	33.7	- The Process of the Estimated Apply of the energy of the second and assessment that make they will be a
Kcal/hr	29,040	
EVAPORATOR AIRFLOW		
(0 in. water column external static pressure)		
High Speed	3200 ft <sup>3</sup> /min	PROBLEM Editions projection by the company operated and their desirable company opera
Medium Speed	1900 ft³/min	A Company of Action 1944
Low Speed	1350 ft <sup>3</sup> /min	The state of the s
REFINERAL		
	HFC R-134a	HFC R-407C
POWER CONSUMPTION @ 27 VDC		
	120 Amps	
CONTINUE CONTINUES		
	470 lbs (213 kg)	
COMPRESSOR WEIGHT WITH CLUSTER APEROXIC	(A)	
5391	147 lbs (67 kg)	
6616	171 lbs (77 kg)	- 64 de lormaneur manamente qui papareur que
<del>(426/X43</del> 0	115 lbs (52.2 kg)	Therefore high reference protection is not at 1 and 1 to 600 and followed the same



### Worldwide Service Organization

Themo King backs its equipment and customers with a highly-trained, worldwide service organization. This assures you the support of factory authorized service facilities and a stock of factory parts and factory trained mechanics.

### Warranty Summary

Terms of the Thermo King Warranty are available on request from your local Thermo King dealer. Please reference document TK50049 for the Thermo King Bus Unit Warranty.

### MORE STANDARD FEATURES THAN EVER!

Why pay for more than you want. Thermo King provides standard features designed to meet your needs.

### INTELLIGAIRE IIIM CONTROL SYSTEM

- Expanded CAN communications capability
- Plugs directly into J1939 network to make more info available
- Eliminates the gateway module required between bus & unit controllers
- Eliminates need for expansion modules external to controller where multiple zones must be controlled independently

### HIGH PERFORMANCE R-407C OR R-134A

 Environmentally safe alternatives with zero ODP



### THE THERMO KING X430 COMPRESSOR

- Engineered exclusively for transport applications
- Built for extended service life
- Field repairable

### **ELECTRONIC CAPACITY CONTROL**

- Capacity can be reduced when not needed for fuel savings on cooler days
- Improved temperature balance on Arctic buses so capacity can be shifted from unit to unit as needed

### MOTORIZED WATER VALVE

- Improved temperature control in re-heat and heating modes
- Eliminates water hammer







### **OPTIONAL FEATURES INCLUDE:**

Take control of your operating costs with these cost-saving options available only from Thermo King.

### INTELLIGAIRE III™ ELECTRONIC PRESSURE DISPLAY MODULE

- Touchpad displays four different pressure readings
- · Simplifies problem diagnosis and pre-trip inspections

### 5391/S616 SCREW COMPRESSORS

- Exclusive oil management system for increased reliability
- Fewer moving parts than reciprocating compressors
- Lower noise levels and vibration than reciprocating compressors
- Programmable capacity control for fuel savings





- Integral electronics
- 10% greater airflow
- Maintenance-free
- Programmable variable speed
- 40,000-hour bearings

### OTHER AVAILABLE OPTIONS

- Return Air Grille
- Damper-Controlled Fresh Air Module





# VHAT YOU NEED A REALITY.

### NEW ELECTRONIC CAPACITY CONTROL

- Capacity can be reduced when not needed for fuel savings on cooler days
- Improved temperature balance on Arctic buses so capacity can be shifted from unit to unit as needed





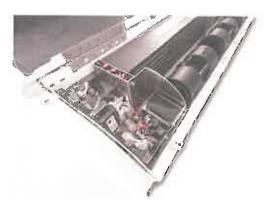
### NEW MOTORIZED WATER VALVE

- Improved temperature control in re-heat and heating modes
- Eliminates water hammer



# UNIT CONTROLS IN CONDITIONED AIR SPACE

- Improved environmental protection
- Improved access and servicability



## USING WHAT WE KNOW TO MAKE

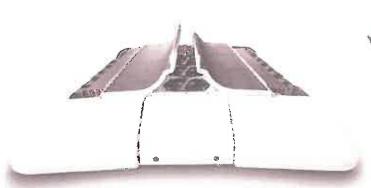
### WATER TIGHT DESIGN

- Harness interface points use water-tight sealed fittings
- No water ingress due to high/low pressure differentials
- One piece welded frame
- No rivets or sealant.



### **NEW SIDE-ACCESS COVERS**

- Gull wing doors eliminate prop rods
- Improved latching, sealing, access and aesthetics





CBS / ElDorado Na Proposer/Vehicle N	tional (California), ind Nanufacturer	<u>.</u>	
RFP Part IV Section	on Number 18 S	Section Title <u>Windows</u>	
Describe Request.	nclude appropriate s	upporting documentati	ion as outlined in the RFP:
bus sides and in the maximum solar ener	; <b>material shall</b> have a rear door shall be tin rgy transmittance sha	ted a neutral color, com	ess tempered safety glassWindows on the aplementary to the bus exterior. The t, as measured by ASTM E-424, and the ured by ASTM D-1003.
Approval requested a solar energy transr		enger side windows pro , in lieu of 1/4" nomina	ovided with a 3/16" thickness, 13% LT and I thickness tempered safety glass. This is
GPTD Response:			
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
(GP)			3/3/22
Signature of GPTD O	official and the second		Date



### **GLAZING**

Glazing required for driving visibility must conform to ANSI Z26.1 AS2 which necessitates that the glazing must have a minimum of 70%VLT (% Visible Light Transmittance).

Common glazing specifications include:

Туре	Color	Thickness	%VLT <sup>1</sup>	%TSET <sup>1</sup>	%UV¹	Notes
	Green	6mm	72%	68%	<1%	Laminated glass is not recommended for
Laminated Glass	Blue/Green	6mm	75%	31%	<1%	Flush Glass/Frameless style windows due
	Green SMG <sup>2</sup>	бтт	74%	40%	0%	to the fragile nature of the exposed edges.
	Green	6mm	75%	47%	31%	Tempered glass possesses more strength and impact resistance, but does not have the
Tempered Glass	Green	5mm	79%	51%	35%	premium UV rejecting properties associated
-	Blue/Green	5mm	72%	36%	46%	with non-tempered, laminated glass.

Data is approximate and subject to change due to float glass manufacturing and window fabrication tolerances

### **HANDLE OPTIONS**

All of the handle options outlined below are available on anyone of AROW Global's driver windows.



PULL HANDLE: The size and shape of the pull handle makes it easy to hold onto while opening and closing the window.

- Material Extruded aluminum and anodized to a black or clear finish.
- · Location Front and/or rear sliding sash.
- · Other Features Exterior handles may be specified to permit dash access from outside the vehicle. Handles may be specified with an optional pinch latch on both Evolution and Storm-Tite windows.



**ROCKER LATCH:** The rocker latch provides the greatest visibility and control to the driver. The rocker latch allows the driver to effortlessly open and secure the window in various positions; the strikes can be set to open at various increments of 2.75".

- Material Machined aluminum and black powder coat paint.
- Location Front and/or rear sliding sash.



PULL KNOB\*: The smaller size of the pull knob provides greater visibility to the driver.

- · Material Machined aluminum and black powder coat paint.
- <u>Location</u> Front and/or rear sliding sash.

 $<sup>\</sup>label{light} VLT = Visible\ Light\ Transmittance,\ TSET = Total\ Solar\ Energy\ Transmittance,\ UV = Ultraviolet\ Light\ Transmittance$ 

<sup>&</sup>lt;sup>2</sup>SMG is a trademark of Guardian Glass

<sup>\*</sup>Available with tempered glass only.

CBS / ElDorado Nat Proposer/Vehicle M	<mark>tional (California), Ind</mark> ianufacturer	<u>c.</u>	
		Section Title <u>Heating Ve</u>	entilating and Air Conditioning
Describe Request. I	nclude appropriate s	upporting documentat	ion as outlined in the RFP:
Specification in que Capacity and Perfor The District currenti	mance	14-M6 units on their co	aches
Approval requested This system has a he rated at 113,000 BT model X430 refriger III. Roof-mounted H	eating system rating of when utilizing R407 ant compressor. The IVAC systems are sta	luty Thermo King, Ather of 100,000 BTU. The air 7C refrigerant. The HVA e electronic climate cont ndard on the Axess dies	nia AMII Rooftop mounted HVAC system conditioning component of the Athenia C system incorporates a Thermo King, trol system is the Thermo King - Intelligatel model; this is a critical design elementia AMII and X430 compressor brochure
GPTD Response:			
Approved:	Denied: 🛛	Noted: 🛚	
Comments:			
Œ			3/3/22
Signature of GPTD O	fficial		Date



## Athenia AM II Series

Rooftop HVAC System for Coach and Transit







### A LOW-WEIGHT, HIGH-PERFORMANCE ROOFMOUNT SYSTEM!

- Easy-to-instalt one-place design
- interigAIRE IITM
  microprocessor controller with
  CANSUS communications
- Designed to the UNG, layland, and diesel buses
- Transducers standard
- Motorized water valve standard
- Electronic capacity control standard

# Introducing the Athenia AM II Series

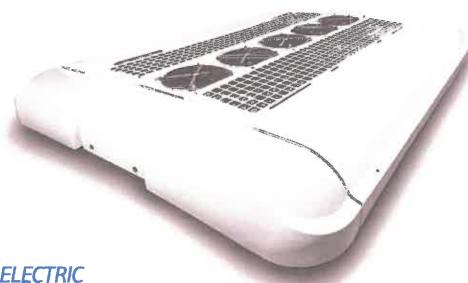
Featuring an updated design that delivers improved quality and reliability while offering new features and significant enhancements.

- 10% weight reduction
- Welded frame
- · Reduced number of potential leak points
- No sealants used in design
- · Stiffer construction for improved unit/bus sealing
- 10% more condenser airflow
- 5% more evaporator airflow
- Access all servicable items from inside bus

The Rock-Solid Result of over 50 Years of HVAC Design Experience!



ONE PLATFORM FOR ALL YOUR NEEDS!



ATHENIA AM II E-800 ALL-ELECTRIC

System for hybrid, trolley and battery buses

### ATHENIA AM II EA-800 ALL-ELECTRIC WITH:

• Exclusive alternator/inverter power for standard diesel and CNG-powered buses

### ATHENIA AM II 960

• Base platform with R-134a refrigerant

### ATHENIA AM II 1000

Base platform with R-407c refrigerant

AVAILABLE MID-2014 Micro Channel-brazed aluminum condenser cells become the stanoard for reduced weight, reduced refrigerant and improved on formance

CBS / ElDorado Natio Proposer/Vehicle Mar		•	
RFP Part <u>IV</u> Section	Number 18 S	Section Title Windows	
Describe Request. Inc	lude appropriate su	upporting documentatio	n as outlined in the RFP:
Specification in quest Driver's Side Window A two-piece full slider		en frame meets this requ	irement.
horizontal section ove laminated safety glass windows due to the fr	or a driver' hidden for the slider in the lo as specified. Lamin agile nature of the o	rame side window that is ower % of the window in lated glass is not recomn	s 3/16" tempered glass and has a fixed, lieu of two-piece full slider 1/4" nended for Flush Glass/Frameless style critical build issue due to the radius of our indow brochure.
GPTD Response:			
Approved:	Denied: 🛚	Noted: 🛚	
Comments:			
<u>G</u>			3/3/22
Signature of GPTD Offi	cial		Date





At AROW Global our mission is to develop innovative solutions for our customers, including transit bus companies, transit authorities, and transit unions. As part of our commitment to product innovation and customer satisfaction we are pleased to offer our customers various options when selecting driver windows.

Both our Evolution Framed Window Series and Storm-Tite Flush Window Series offer options to suit any budget and style need.

### WINDOW DESIGNS





### **FULL SLIDERS**

Window can opened via a front sliding sash or front and rear sliding sash.





#### **FIXED OVER SLIDERS**

Window has a fixed upper portion and a lower sliding section which can be opened via a front sliding sash or a front and rear sliding sash. This design is recommended for taller window openings that do not permit a full slider design.





#### **HI-VIZ SLIDERS**

Designed to maximize driver viewing, Hi-Viz full height slider windows use fewer frame components and can be equipped with a front sliding sash only.



All windows, except for the Evolution Framed Hi-Viz Slider, are available in egress or non-egress configurations

### **SHADE BANDS**

All driver windows can be equipped with shade bands either in a dot matrix form or a tinted band.

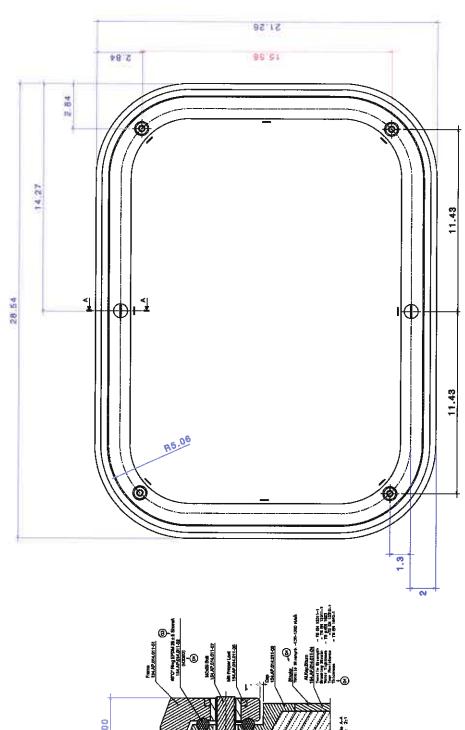
CBS / ElDorado Na Proposer/Vehicle N	tional (California), Ind Vianufacturer	P	
RFP Part <u>IV</u> Secti	on Number <u>17</u>	Section Title <u>Driver Prov</u>	isions
Describe Request.	Include appropriate s	upporting documentation	on as outlined in the RFP:
Specification in que Windshield Wipers The windshield was protected from free	i sher system shall have	a minimum 3-gallon res	servoir, located for easy refilling and
Approval requested	at can be accommoda	n windshield <b>washer res</b>	ervoir. This is the largest windshield ign. This is a critical design element, which
GPTD Response:			
Approved: 💢	Denied: 🛚	Noted: 🛚	
Comments:			
(GP)			3/3/22
Signature of GPTD (	Official		Date

CBS / ElDorado Na Proposer/Vehicle I	<mark>itional (California), In</mark> Manufacturer	<u>ıc.</u>	
Troposer, vernole i	manaractar cr		
RFP PartIV_Sect	ion Number <u>17</u>	Section Title <u>Driver Prov</u>	isions
Describe Request.	Include appropriate	supporting documentation	on as outlined in the RFP:
Specification in que Onboard Diagnost Low-DEF Buzzer			
	tion or Approved Equ d to provide a Low-Di	<u>ual:</u> EF beeper in lieu of the re	equested buzzer.
GPTD Response:			***************************************
Approved:	Denied: 🖪	Noted: 🛽	
Comments:			
(6P)			3/3/22
Signature of GPTD C	Official		Date

Proposer/Vehicle N	<u>(Ional (California), inc</u> Nanufacturer	<u>C.</u>
RFP PartIV_Section	on Number <u>16</u>	Section Title Passenger Accommodations
Describe Request. I	nclude appropriate s	supporting documentation as outlined in the RFP:
Specification in que Dimensions When open, the doo		ening no less than <b>84.5 inch</b> es in height.
	<b>ion or Approved Equa</b> for a <b>door</b> opening of	<u>al:</u> of 81 inches in height in lieu of the requested 84.5 inches.
GPTD Response:		
Approved:	Denied: 🛚	Noted: ਹ
Comments:		
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Date

Signature of GPTD Official



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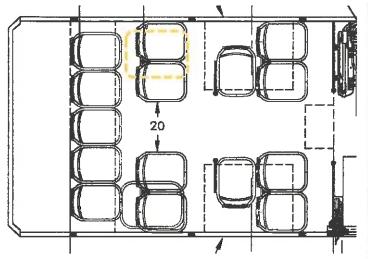
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### **Axess Interior Floor Access Point**

The Axess units has the following interior floor access point:

One (1) floor hatch that is located on the roadside upper deck in front of the rear row seats (shown below in yellow). The Purplast floor hatch provides access to the circuit breakers wiring within battery compartment from the interior of the bus.





Please note: Drawings and pictures are meant to show location of floor hatch only and do not represent seating/stanchion layout.

Please reference floorplan provided for seating configuration per customer specification.

	tional (California), Inc	n <u>u e</u>	
Proposer/Vehicle N	vianuiacturer		
RFP Part IV Section	on Number <u>14</u>	Section Title <u>Interior Pan</u>	els and Finishes
Describe Request. I	nclude appropriate s	upporting documentation	on as outlined in the RFP:
Specification in que Access Panels and			
_		loor and shall be edge be s from coming loose.	ound with a one-piece continuous
stanness-steer name	se to prevent the edge	ss from coming toose.	
	t <b>ion or Approved Equ</b> a I for one (1) floor hate		roadside upper deck in front of the rear
row of seats. The P	urplast floor hatch pr	ovides access to the batt	tery compartment from the interior of the
		and is edge bound with d M dimensional drawing.	cast polyurethane material. Please
GPTD Response:			· · · · · · · · · · · · · · · · · · ·
Approved: 🛭	Denied:	Noted: ₺	
Comments:	,		
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(GF)			3/3/22

Date

Signature of GPTD Official

CBS / ElDorado Nati Proposer/Vehicle N	<mark>tional (California), Inc</mark> Nanufacturer	<u>.</u>	
,		ection Title <u>Passenger Accor</u>	mmodations
Describe Request. I	nclude appropriate su	pporting documentation as	s outlined in the RFP:
Specification in que Loading System The Lift U ramp mod	e <b>stion:</b> del#LU11-08-05 meets	s <b>these re</b> quirements.	
	ion or Approved Equa to provide a LU-18 lo		.U11 no longer being produced by
GPTD Response:			
Approved:	Denied: 🛽	Noted: 🛽	
Comments:			
(GP)			3/3/22

Signature of GPTD Official

Date

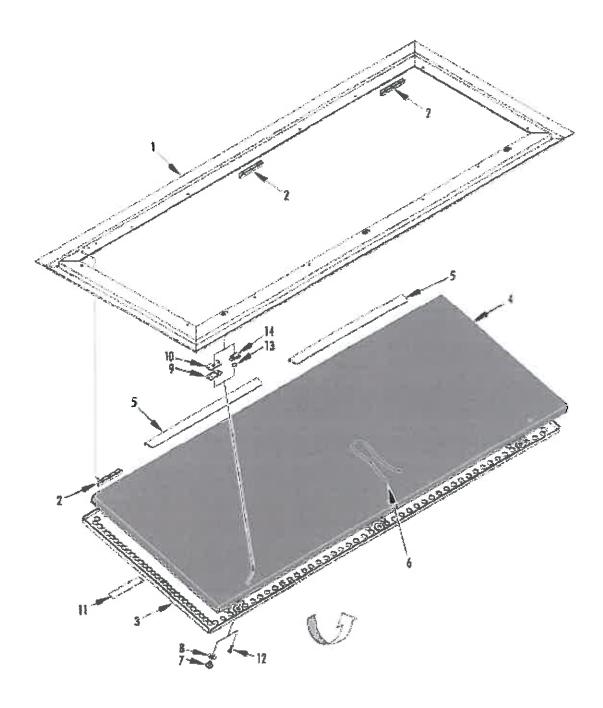
CBS / ElDorado Na Proposer/Vehicle N	<u>tional (California), In</u> Manufacturer	<u>c.</u>	
RFP Part <u>IV_</u> Secti	on Number17	Section Title <u>Driver Pro</u> v	visions
Describe Request. I	nclude appropriate s	upporting documentati	ion as outlined in the RFP:
Specification in que Windshield Wipers The bus shall be equ separate controls fo	lipped with a variable	speed windshield wipe	r for each full half of the windshield, with
			wing panel. This is a critical design
GPTD Response:			
Approved: 🗹	Denied: 🕅	Noted: 🛚	
Comments:			
69			3/3/22
Signature of GPTD O	fficial		Date

CBS / ElDorado National (California), Inc.

Proposer/Vehicle Manufacturer	
RFP Part IV Section Number 14 Section Title Interior Panels and	d Finishes
Describe Request. Include appropriate supporting documentation as o	outlined in the RFP:
Specification in question: Storage Box	
An enclosed driver storage compartment shall be provided with a position located on top of the curb-side wheel housing.	ive latching door and/or lock,
Question/Clarification or Approved Equal: Storage Box An enclosed driver storage compartment shall be provided with a positionated on top of the curb-side wheel housing.	ive latching door and/or lock,
GPTD Response:	
Approved: 2 Denied: 2 Noted:	
Comments: Question is same as specifica	ation.
CO .	3/3/22
Signature of GPTD Official	Date

CBS / EID	orado Nation	<u>al (Californ</u>	<u>iia), Inc.</u>					
Proposer,	/Vehicle Manu	ıfacturer						
RFP Part_	IV Section N	lumber	14Sectio	n Title <u>Interio</u>	r Panels and	Finishes		
Describe I	Request. Inclu	ide approp	riate suppoi	rting docume	ntation as o	utlined in t	he RFP:	
Rear Bulk								
	essary to remo or shall be ab	-		•			-	ne panel shal
Deviation	/Clarification of requested for prille open; but mo King.	an air retu	urn grille tha					
SPTD Res	ponse:							
Approved:	<b>X</b>	Denied: 🛭		Noted: 2				
Comments	s:							
	(GF)		_			3/3	122	
							<del></del> _	

Date



CBS / ElDorado National (California), Inc.
Proposer/Vehicle Manufacturer
RFP Part IV Section Number 14 Section Title Interior Panels and Finishes
Describe Request. Include appropriate supporting documentation as outlined in the RFP:
pecification in question: Passenger Lighting Interior lights shall be individually dimmable
Question/Clarification or Approved Equal: Approval requested for interior lights that shall be dimmable by changing the interior lighting program.
PTD Response:
pproved: 🖪 Denied: 💆 Noted: 🛽
Interior lights should be dimmable manually by & setting at light.
(GE) 3/3/22

Date

CBS / ElDorado Nat	ional (California), inc	4		
Proposer/Vehicle M		-		
RFP Part <u>IV</u> Section	on Number <u>14</u> S	ection Title <u>Interior Pan</u>	els and Finishes	
<b>Describe</b> Request. Ir	nclude appropriate su	upporting documentation	n as outlined in the RFP:	
<u>Specification in que</u> Driver Barrier A barrier or bulkhea		and the street-side fron	t passenger seat shall be	provided.
Approval requested			inet for the unit is located enger compartment.	d directly behind
GPTD Response:				
Approved: 💆	Denied: 🛽	Noted: 🛚		
Comments:				
(GP)			3/3/22	_

Date

<u>CBS / ElDorado Natio</u> Proposer/Vehicle Mar			
RFP Part IV Section	Number <u>14</u> Se	ction Title <u>Interior Pan</u>	els and Finishes
Describe Request. Incl	ude appropriate sup	porting documentation	on as outlined in the RFP:
Specification in question Front End Paneling across the from or plastic material		trim around the drive	er's compartment shall be formed metal
Question/Clarification Approval requested for		sh is formed from fiber	rglass composite not formed metal.
GPTD Response:	<del>/</del>		
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
GP)			3/3/22
Signature of GPTD Office	ial		Date

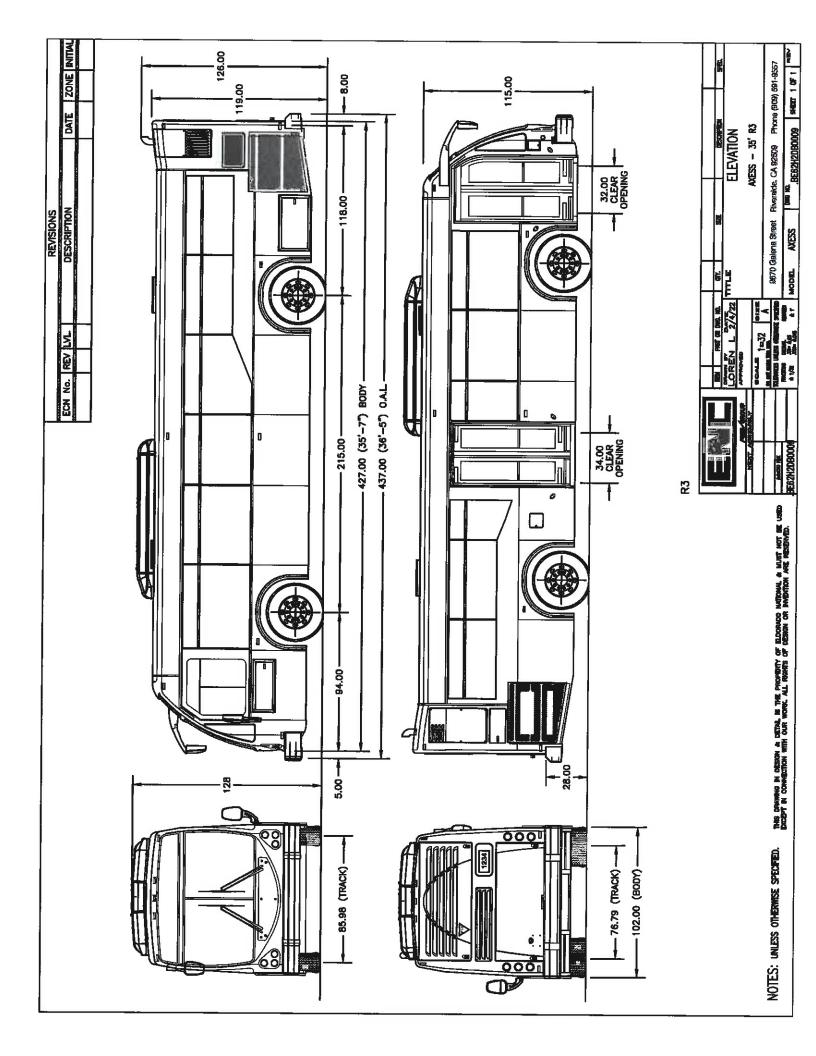
CBS / ElDorado Nation Proposer/Vehicle Ma		<u>\$</u>	
RFP Part IV Section	Number 13 S	ection Title Exterior and	d Finishes
Describe Request. Inc	clude appropriate su	apporting documentation	on as outlined in the RFP:
Specification in quest Service Compartment Latch handles shall be grip for opening.	and Access Doors	sed behind, the body an	<b>d shall</b> be sized to provide an adequate
note that surface mou	or latch handles to be unting of the latch ha	e surface mounted in lie andles provides for a mu	eu of flush or recessed mounting. Please uch more adequate grip for opening pors such as the engine and rear upper
GPTD Response:			
Approved: 🛽	Denied: 💢	Noted: 🖪	
Comments:	•		
(GF)			3/3/22
Signature of GPTD Of	ficial		Date

Proposer/Vehicle Manufa	-			
RFP PartIV_Section Nun	nber <u>13</u> Section	on Title <u>Exterior an</u>	d Finishes	<u> </u>
Describe Request. Include	appropriate suppo	rting documentati	on as outlined in the I	RFP:
Specification in question: Service Compartment and Doors with top hinges shal		stored behind the	door or on the doorfra	me.
Question/Clarification or A Approval requested for ou open by two (2) gas springs	r standard rear engi	ne and rear upper	compartment access d	loors that are held
GPTD Response:		/		
	nied: 🛽	Noted:		
Comments: Gas springs One spring door from	, may be has a closing	safety	provided lock to	at least prevent
GF			3/3/2	2_
Signature of GPTD Official			Date	

CBS / ElDorado Nation Proposer/Vehicle Man		i <u>C.</u>	
		Section Title Exterior and	Finishes
Describe Request. Incl	ude appropriate s	supporting documentation	n as outlined in the RFP:
Specification in questi Front Bumper Bumper shall provide r		ns for integrated bike rack	ζ.
bike rack manufacture	provide an energ r to install the bike	y absorbing front bumper	that utilizes a bracket provided by the sign element that cannot be modified. manufacturer.
GPTD Response:	- 0.		
Approved:	Denied: 🛽	Noted: 🛽	
Comments:			
(GF)			3/3/22
Signature of GPTD Office	cial		Date

CBS / ElDorado Nat Proposer/Vehicle M	tional (California), Inc Ianufacturer	<u>:</u>	
RFP Part IV Section	on Number <u>13</u> S	ection Title <u>Exterior an</u>	d Finishes
Describe Request. I	nclude appropriate su	pporting documentati	on as outlined in the RFP:
All access doors sha	ent and Access Doors		or counterbalancing with over-center or
Approval requested		ery box that does not p	provide props or counterbalancing. The locking flush mounted latch.
GPTD Response:	÷		
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
(GF)			3/3/22
Signature of GPTD C	Official		Date

Proposer/Vehicle M	<u>tional (California), inc</u> Nanufacturer	<u>e</u> .	
RFP Part <u>IV</u> Section	on Number <u>4</u> _S	ection Title <u>Overall Requ</u>	irements
Describe Request.	nclud <b>e appropriate s</b> u	ipporting documentation	n as outlined in the RFP:
Specification in que Dimensions Physical Size: (1) Boo	stion: dy Length: 35 feet ± 6	inches	
We would like to of	th will allow the purch	a maximum body length o	of 35′ 7" excluding bumpers. rainless steel Axess. Please
GPTD Response:			
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
60	Щ		3/3/22
Signature of GPTD (	Official		Date

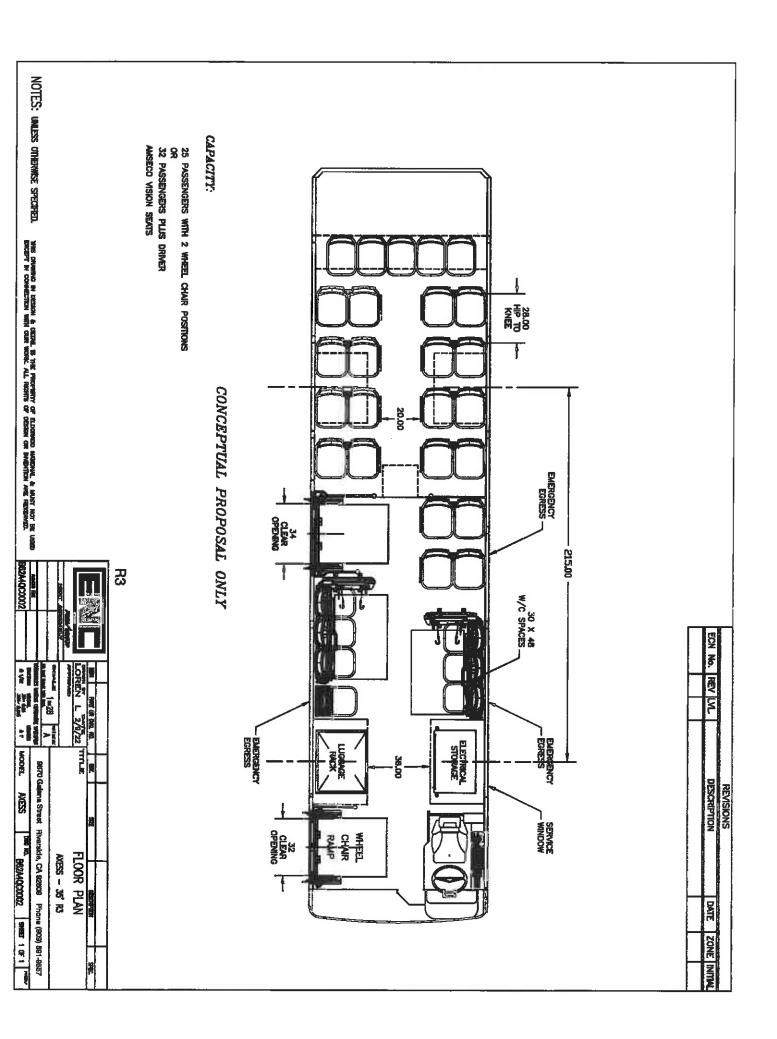


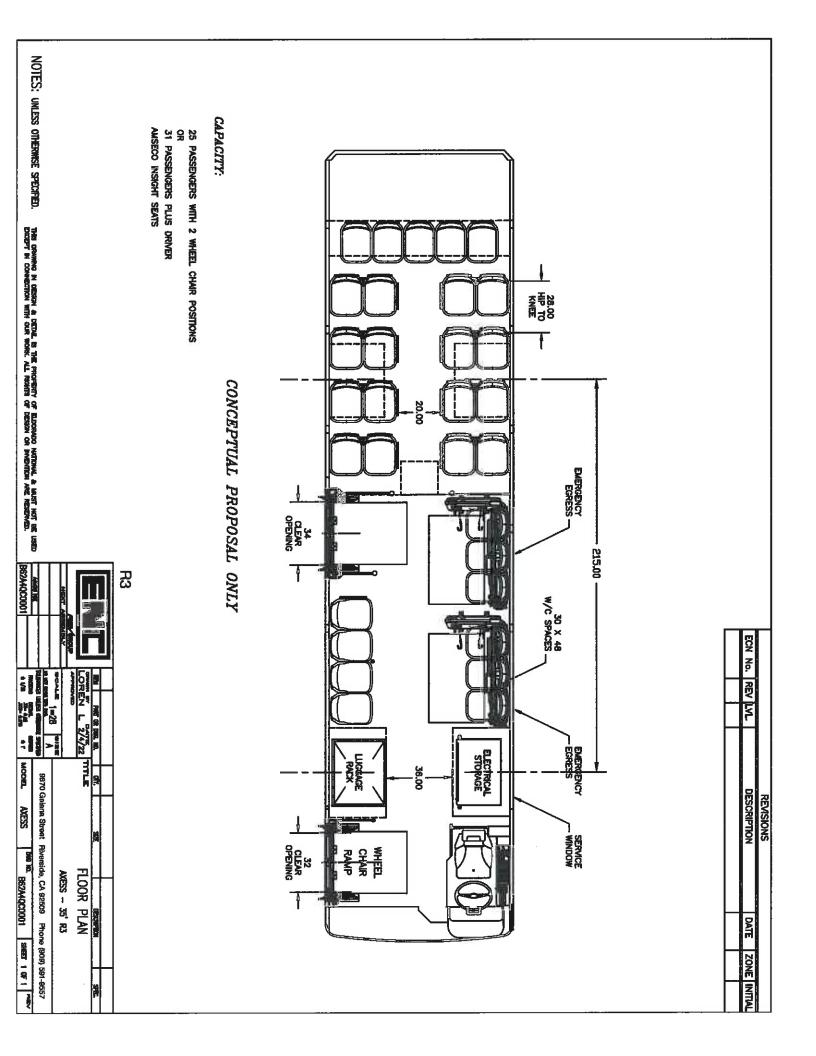
Date

#### FORM 17 APPROVED EQUALS REQUEST FORM

CBS / ElDorado Na Proposer/Vehicle	<u>ational (California), Inc.</u> Manufacturer	<u>.</u>	
FP Part <u>IV</u> Sect	ion Number 4 S	ection Title <u>Overall Rec</u>	<u>quirements</u>
escribe Request.	Include appropriate su	pporting documentati	ion as outlined in the RFP:
pecification in que			
terior Headroom			S
		-	a minimum of 56 inches, but it shall
crease to the cen	ing height of no less tha	in 74 inches at the fron	it of the seat custion.
uestion/Clarificat	tion or Approved Equal	<u> </u>	
larification provid	ed that the headroom a	nt the back of rear bend	ch seat is 54- ¾".
iPTD Response:			
Approved:	Denied: 🗹	Noted: 🛚	
omments:			
	7		
Mat.	<del>7)</del>		3/3/22
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CBS / ElDorado Nation Proposer/Vehicle Ma		<u>, , , , , , , , , , , , , , , , , , , </u>	
RFP Part IV Section	n Number <u>4</u>	Section Title <u>Overall Requ</u>	uirements
Describe Request. Inc	clude appropriate s	upporting documentatio	n as outlined in the RFP:
Specification in quest Capacity Rated capacity of the specified seating arran	bus shall be no less	than 32 seated passenge	ers, not including the driver, with the
aisle width on the low which provides the re	or 31 passengers per er deck. As an alter quired 32 passenge	r attached floor pan #B62 rnative, please reference rs but places the wheelch	A4QC0001 which provides expanded attached floor plan #B62A4QC0002 hair positions slightly staggered across to utilize for pricing purposes.
GPTD Response:			
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
(GF)			3/3/22
Signature of GPTD Off	icial		Date





Proposer/Vehicle N	<del>tional (California), in</del> Manufacturer	<u>c.</u>	
RFP Part <u>IV</u> Section	on Number 5	Section Title Vehicle Performance	_
Describe Request. I	nclu <b>de app</b> ropriate s	supporting documentation as outlined in the RF	P:
		of 70 mph (for emergency and passing maneuver operating.	s) on a straight,
	ion or Approved Equ for a top speed of 69	al: 9.1 mph as estimated on the Allison SCAAN.	
GPTD Response:			
Approved:	Denied: 🛚	Noted: 2	
Comments:			
60			20
(OF)		3/5/8	<del>KZ</del>

Date

CBS / ElDorado Nat Proposer/Vehicle N	t <mark>ional (California), Inc</mark> Manufacturer	<u>c.</u>	
RFP Part <u>IV</u> Section	on Number <u>5</u>	Section Title <u>Vehicle Per</u>	rformance
Describe Request. I	nclude appropriate s	upporting documentati	tion as outlined in the RFP:
	ts et all regulatory requ I Gas #2292.5. The fo		ing on fuel equal to CARB Specifications for cteristics that must be met are methane,
Clarification request	ion or Approved Equated whether this was sel only procurement.	on oversight for the CN	NG reference to be included, since this
GPTD Response:			
Approved: 🛽	Denied: 🛚	Noted:	
Comments: This was	s a type	only.	s for procurement
69			3/3/22

Date

<u>CBS / ElDorado National (California), Inc.</u> Proposer/Vehicle Manufacturer					
Proposer/ venicle	: Ivialiulactulei				
RFP Part III_Sec	ction Number 5 S	ection Title <u>Vehicle Perfo</u>	ormance		
Describe Request. Include appropriate supporting documentation as outlined in the RFP:					
Specification in q	uestion:				
Speed (mph)	Maximum time (see	conds)			
10	5				
20	10.8				
30	20				
40	31				
50	n/a				
Question/Clarific	ation or Approved Equa	l <u>:</u>			
Approval request	ed for the acceleration t	imes to be modified as fo	ollows as estimated on the Allison SCAAN		
Speed (mph)	Maximum time (see	conds)			
30	18.4				
40	31.5				
GPTD Response:					
Approved:	Denied: 🛚	Noted: 🛽			
Comments:					
6	)		- 1- 100		
(OF			3/3/22		

Signature of GPTD Official

Proposer/Vehicle Ma		<u>C.</u>	
RFP Part IV Section	Number <u>6</u>	Section Title <u>Drivetrain</u>	
Describe Request. Inc	clude appropriate s	supporting documentation	on as outlined in the RFP:
Specification in quest Service Engine oil and the radi positive locks.		ll be hinged to the filler r	neck and closed with spring pressure or
is integral with the eng coolant level. Please	or a non-hinged pos gine coolant recove note that the propo	itive lock type radiator fi	ller cap mounted on the surge tank which tes a screw-on cap for checking the engine every system meets Cummins
GPTD Response:			
Approved:	Denied: 🛽	Noted: 🛽	
Comments:			
			2/2/00
(cr)			3/3/22
Signature of GPTD Offi	cial		Date

CBS / ElDorado Nat Proposer/Vehicle M	<u>ional (California). In</u> ianufacturer	<u>c.</u>	
RFP PartIV_Section	n Number 6	Section Title <u>Drivetrain</u>	
Describe Request. In	clude appropriate s	upporting documentatio	on as outlined in the RFP:
	and Clamps, and Chard of the engine bulk	head shall be in conform:	ance to SAE St <b>andard J1149</b> Type <b>1</b> for Standard J844 for nylon tu <b>bing colo</b> r
of specified J1149 Ty	for a unit that uses o pe 1 for copper tubi	ur standard Parker 201 f	uel lines compli <mark>ant with SAE</mark> 100R5 in lieu r welded steel tubing, or SAE Standard ec sheet.
GPTD Response:			
Approved:	Denied: 🛚	Noted: 🛽	
Comments:			
69			3/3/22
Signature of GPTD Of	ficial		Date

CBS / ElDorado Na Proposer/Vehicle N	<u>tional (California), Inc</u> Vianufacturer		
RFP Part <u>IV</u> Secti	on Number <u>6</u> S	ection Title <u>Drivetrain</u>	<del></del>
Describe Request.	include appropriate su	pporting documentation as	outlined in the RFP:
The clamps shall ma	and Clamps, and Cha	ion at all times, expanding an	d contracting with hose in response
			'8" hoses, anything smaller we use
GPTD Response:	Daniado M	Noted: ₪	
Comments:	Denied: 🛚	Noted: W	
6			212122
(01)			>15/0d

Date

CBS / ElDorado Nation Proposer/Vehicle Ma		nc.
RFP PartIV_Section	Number <u>11</u>	_Section Title General
Describe Request. Inc	clude appropriate	supporting documentation as outlined in the RFP:
Specification in quest	tion:	
		ments of FMVSS Standard 121 and SAE Standard J10 and shall be
equipped with clean-	out plugs and guar	rded <b>or flush</b> type drain valves.
wet tank is stored wit stored above the rear	or our standard air hin the engine cor engine deck out o	ual: r tank design that provides drain plugs that are not guarded. The mpartment with automatic drain valve and the auxiliary tanks are of the elements. These locations remove the air tanks from road damaged in operation.
GPTD Response:	-	
Approved:	Denied: 🛚	Noted: 团
Comments:		
GF)		3/3/22

Date

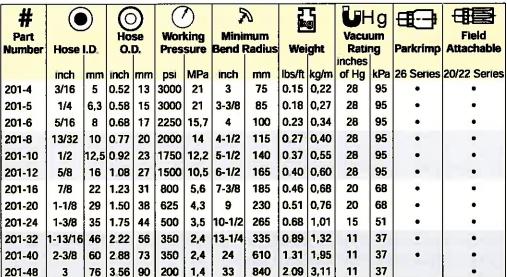
Fittings

B

#### 201

#### **Transportation**

SAE 100R5 SAE J1402 All, D.O.T. FMVSS 106 All - AIR BRAKE





Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.

Inner Tube: Synthetic rubber. Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid.

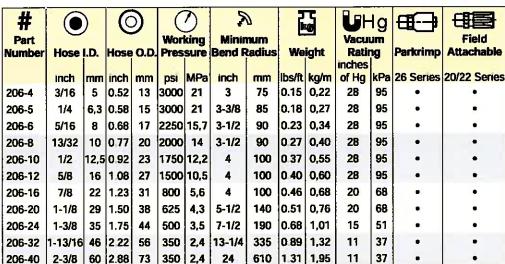
Temperature Range: -40°F to +302°F (-40°C to +150°C).

Fittings: 26 Series - pg. B-9. 20 Series - pg. B-125. 22 Series - pg. B-143.

#### 206

#### Transportation

SAE 100R5 SAE J1402 All, D.O.T. FMVSS 106 All - AIR BRAKE





Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions

Inner Tube: PKR°.

Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid, blue.

Temperature Range: -55°F to +302°F (-48°C to +150°C).

Fittings: 26 Series - pg. B-9. 20 Series - pg. B-125. 22 Series - pg. B-143.

- See page E-5 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.
- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

