

APPENDIX D-4

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

**State of Connecticut
Buses Round 2
June 5, 2020**

APPENDIX D-4
Beneficiary Eligible Mitigation Action Certification

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary _____

Lead Agency Authorized to Act on Behalf of the Beneficiary _____
(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)

Action Title:	
Beneficiary's Project ID:	
Funding Request No.	<i>(sequential)</i>
Request Type: (select one or more)	<input type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input type="checkbox"/> Other (specify): _____
Payment to be made to: (select one or more)	<input type="checkbox"/> Beneficiary <input type="checkbox"/> Other (specify): _____
Funding Request & Direction (Attachment A)	<input type="checkbox"/> Attached to this Certification <input type="checkbox"/> To be Provided Separately

SUMMARY

Eligible Mitigation Action <input type="checkbox"/> Appendix D-2 item (specify): _____ Action Type <input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal):
Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):
Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):
Estimate of Anticipated NOx Reductions (5.2.3):
Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):
Describe how the Beneficiary will make documentation publicly available (5.2.7.2).
Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).
Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).

ATTACHMENTS
(CHECK BOX IF ATTACHED)

- Attachment A Funding Request and Direction.
- Attachment B Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
- Attachment C Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
- Attachment D Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
- Attachment E DERA Option (5.2.12). [Attach only if using DERA option.]
- Attachment F Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]

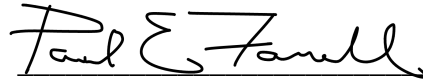
CERTIFICATIONS

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of Beneficiary _____, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)
5. Beneficiary will maintain and make publicly available all documentation submitted in

support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: _____

_____

**Paul E. Farrell
Director of Air Planning**

[LEAD AGENCY]

for

[BENEFICIARY]

APPENDIX D-4 – Supplemental Information Beneficiary Eligible Mitigation Action Certification

Beneficiary: State of Connecticut

Lead Agency: Department of Energy and Environmental Protection

In support of funding request No. 9 – Class 4-8 Buses

Appendix D-4-Summary

Explanation of how funding request fits into Beneficiary’s Mitigation Plan (5.2.1):

The State of Connecticut (State), pursuant to the 2018 Mitigation Plan, filed with Wilmington Trust (WT) on April 26, 2018, outlined a protocol for the selection of on-road vehicle replacement projects, including replacement of Class 4-8 School Bus, Shuttle Bus or Transit Bus (Buses), to protect the state's air quality and the health of vulnerable populations. The primary goal of the State’s 2018 Mitigation Plan is to improve and protect ambient air quality by selecting and implementing eligible mitigation projects that will (1) achieve significant and sustained cost effective reductions in Nitrogen Oxide (NO_x) emissions, (2) support statewide energy, environmental and economic development goals, (3) expedite deployment and widespread adoption of zero emission and near-zero emission vehicles and engines, and (4) reduce impacts on environmental justice and other impacted communities.

Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):

The bus replacement project will have a significant impact on reducing emissions from Connecticut’s transportation sector, improving air quality and protecting public health. This bus replacement grant is designed to reduce young people and sensitive groups’ exposure to diesel exhaust. These groups are particularly vulnerable to the negative health effects of diesel pollution. Sensitive groups for ozone and particle pollution include people with heart or lung disease (including heart failure and coronary artery disease or asthma and chronic obstructive pulmonary disease), older adults (who may have undiagnosed heart or lung disease), and children.

Replacing school buses as part of the DATTCO, First Student, and Student Transportation of America (STA Naugatuck) projects is an effort undertaken by school districts across the state of Connecticut to reduce emissions impacts from older diesel school buses, to significantly reduce children’s exposure to harmful emissions and to improve regional air quality. Most school buses run on diesel fuel and emit significant levels of particulate matter (PM). PM and other pollutants from diesel emissions are known to aggravate the lungs and even promote the development of asthma in young children. Exposure to PM has been linked to premature death from heart or lung disease. The U.S. Environmental Protection Agency (EPA) has also classified diesel exhaust as a probable human carcinogen. In general, children are more sensitive to air pollution because they breathe more air per pound of body weight than adults. In Connecticut, 457,000 children ride 7,030 school buses each day. The amount of time a child spends on the bus every day varies from 20 minutes to several hours and, cumulatively, Connecticut children spend more than 50 million hours on school buses per year. Because the health issues associated with diesel exhaust are exacerbated in children, the reduction of diesel emissions from school buses is a priority.

As part of the bus mitigation project, three school bus companies have been awarded grants. DATTCO, Inc. (DATTCO) will replace one (1) Class 4 diesel- powered school bus with a 2020 Model Year (MY) electric equivalent. The bus will be used in Middletown to transport students. Replacing a diesel school bus with an electric bus in Middletown, a community disproportionately impacted by diesel vehicles, will have a health benefit for the student riders. The STA Naugatuck project will replace eighteen (18) 2008 MY school buses with 2021 MY diesel school bus equivalents. The buses will be used to transport students in Naugatuck, CT. Nine (9) MY 2006-2007 school buses will be replaced as part of the First Student project. These are the oldest buses in a fleet used to transport students in Hamden, New Fairfield, Ridgefield, Watertown, and Weston, CT. By scrapping older diesel school buses and replacing them with lower emission vehicles, there will be improved fuel economy from advances in engine technology, along with reductions in air pollutants. The project will also decrease diesel particulates in the New York/New Jersey/Connecticut maintenance area for fine particulate matter. Due to higher respiration rates and continuing lung development in young people and sensitive receptors, particulate and nitrogen oxide pollution detrimentally affects lung function, development and growth, specifically within non-attainment areas across the state where excessive levels of ozone aggravate respiratory conditions.

Additionally, Yale University (Yale) will replace a Class 8 shuttle bus, with an equivalent fully electric shuttle bus. The new bus will be used for public transportation in the congested downtown area of New Haven. The project will enhance air quality by eliminating tailpipe emissions from this vehicle. By choosing to replace the diesel shuttle bus with an electric bus, the greatest possible amount of greenhouse gas reductions will be achieved.

Estimate of Anticipated NO_x Reductions (5.2.3):

The estimated emissions were calculated using the EPA's Diesel Emissions Quantifier (DEQ.) The anticipated NO_x emissions reductions from the Class 4-8 bus mitigation project is 1.27 tons per year (tpy) and lifetime NO_x emissions reduction from this group is 8.41 tpy.

Describe how the Beneficiary will make documentation publicly available (5.2.7.2):

Complete information and documentation will be posted on DEEP's Volkswagen incentive program website at: <https://portal.ct.gov/DEEP/Air/Mobile-Sources/VW/VW-Settlement---Home>; promotional materials will also be posted and cross-linked on DEEP's DERA Grants page at: <https://portal.ct.gov/DEEP/Air/Mobile-Sources/DERA-Grants> and on its [Drive Clean CT](#) Facebook Page.

Describe any cost share requirement to be placed on each NO_x source proposed to be mitigated (5.2.8):

Connecticut's 2018 Mitigation Plan outlines that diesel mitigation funds will provide for government owned eligible buses:

- Up to 65% of the cost of a repower with a new diesel or alternate fueled engine, including the costs of installation of such engine,
- Up to 65% of the cost of a new diesel or alternate fueled vehicle,
- Up to 65% of the cost of a repower with a new all-electric engine, including the costs of installation of engine, and charging infrastructure associated with the new all-electric engine; and
- Up to 65% of the cost of a new all-electric vehicle, including charging infrastructure associated with the new all-electric vehicle.

Connecticut's 2018 Mitigation Plan outlines that diesel mitigation funds will provide for non-government owned eligible buses:

- Up to 40% of the cost of a repower with a new diesel or alternate fueled engine, including the costs of installation of the engine,
- Up to 25% of the cost of a new diesel or alternate fueled vehicle,
- Up to 60% of the cost of a repower with a new all-electric engine, including the costs of installation of such engine, and charging infrastructure associated with the new all-electric engine; and
- Up to 60% of the cost of a new all-electric vehicle, including charging infrastructure associated with the new all-electric vehicle.

After voluntarily leveraging \$67,083.05 of its own funds in excess of the required 35% match, DATTCO was awarded 42% of the cost of the new electric school bus, which results in a net 58% cost share for the grantee. Awarded 65% of the cost to replace nine diesel buses, First Student will contribute 35% of the project cost. STA Naugatuck was awarded 65% of the cost to replace eighteen diesel school buses, resulting in a cost share of 35% for STA. Awarded 60% of the cost to replace one shuttle bus, Yale will contribute 40% towards the cost of the new electric shuttle bus. A total of \$2,346,521.93 has been allocated from Trust funds for the Class 4-8 bus replacement mitigation project. This second round of the Class 4-8 Bus Mitigation Project will replace a total of twenty-eight (28) school buses and one (1) shuttle bus.

Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):

On February 22, 2018, within 30 days of the State being named a Beneficiary, the Connecticut Department of Energy and Environmental Protection (DEEP), the State's Lead Agency as designated in accordance with the requirements specified in Appendix D-3, contacted, by U.S. Post and electronic mail, the U.S. Departments of Agriculture and Interior, as specified in subparagraph 4.2.8, plus the Bureau of Indian Affairs, the Defense Department and Bureau of Prisons, all of which have lands in the state.

If applicable, describe how the mitigation action will mitigate the impacts of NO_x emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10):

The reduction of NO_x from the Class 4-8 bus transportation sector will improve air quality and protect human health across the state and especially in environmental justice and other underserved communities. The reduction in diesel pollutants from replacing these 29 buses will have health benefits for all the student riders and for neighborhoods along those transportation routes that have been disproportionately impacted by air pollution from diesel vehicles. Studies have shown that children riding older, high emitting, diesel school buses have experienced disproportionate health impacts simply by riding in the buses. Not only will this bus replacement program reduce emissions impacts to passengers riding on the buses, but also to individuals who are in the roadway travelling behind buses and individuals living, working or simply occupying areas near schools and the public rights of way where these buses operate.

Yale University, in New Haven, is located directly in an EJ community. The all-electric shuttle bus will replace the diesel-powered bus currently in operation in the highly populated urban center of New Haven. The replacement of the diesel bus with an equivalent electric bus will maximize the air quality and social justice benefits of the project while providing targeted benefits to the neighborhoods surrounding Yale's campus. Switching to an electric bus will help alleviate pollution in New Haven, a nonattainment area, which bears a disproportionate share of the air pollution burden caused by high concentrations of diesel particulate matter emissions from buses and cars.

**ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN INCLUDING DETAILED
BUDGET AND IMPLEMENTATION AND EXPENDITURES TIMELINE**

ATTACHMENT B

**PROJECT MANAGEMENT PLAN
PROJECT SCHEDULE AND MILESTONES
CLASS 8 FREIGHT/ LARGE TRUCKS CATEGORY**

Project Management Plan– Project Schedule and Milestones

Milestone	Date
Connecticut submitted its beneficiary form to US District Court, CA Northern District and to the Trustee	October 2017
Connecticut certified as a Designated Beneficiary under the VW Trust	January 29, 2018
Connecticut submitted its final mitigation plan to Wilmington Trust (the Trustee).	April 26, 2018
Request for Round 2 Proposals Announced	August 1, 2019
DEEP Informational Webinar	August 7, 2019
Request for Round 2 Proposals Closing - Application Deadline	September 16, 2019
Round 2 Awards Selected and Notification sent to Awardees/Recipients	November 22, 2019
Recipients enter into Contracts, Purchase Orders	CY 2020, Q1
Buses Delivered	CY 2020, Q2 – Q4
Recipients submit proof of destruction and scrappage documentation	CY 2021, Q1- Q2
DEEP Receives all required invoices and documentation	Upon completion but no later than May 31, 2021*
DEEP reviews, requests corrections if necessary, certifies project completion, and provides reimbursement.	CY2020, Q4 – CY2021, Q1-Q2
DEEP reports to Trustee on status of and expenditures with Mitigation Actions completed and underway	Within 6 months of first disbursement; January 30 and July 30 thereafter

** In light of the current impacts of COVID 19, DEEP may grant extensions to this deadline requested as a result of disruptions in production or other related issues affecting awardees.*

Project Budget

Budget Category	Total Approved Project Budget	Share of Total Budget Funded by the Trust	Cost Share (Paid by Recipients)
Equipment Expenditure			
DATTCO–Recipient #1	\$291,957.00	\$122,689.00	\$169,268.00
Percentage of Total Project Cost for Recipient #1	100%	42%	58%
First Student– Recipient #2	\$769,530.54	\$500,194.85	\$269,335.69
Percentage of Total Project Cost for Recipient #2	100%	65%	35%
STA Naugatuck –Recipient #3	\$1,403,184.00	\$912,070.00	\$491,114.00
Percentage of Total Project Cost for Recipient #3	100%	65%	35%
Yale University – Recipient #4	\$842,500.00	\$505,500.00	\$337,000.00
Percentage of Total Project Cost for Recipient #4	100%	60%	40%
Project Totals	\$3,307,171.54	\$2,040,454.65	\$1,266,717.69
DEEP Administrative ¹	\$306,068.08	\$306,068.08	\$0
Project Totals with DEEP Administrative	\$3,613,239.62	\$2,346,521.93	\$1,266,717.69

¹Subject to Appendix D-2 15% administrative cap

PROJECTED TRUST ALLOCATIONS

PROJECTED TRUST ALLOCATIONS

	2017	2018	2019 - 2020	2020-2021
1. Anticipated Annual Project Funding Request to be paid through the Trust	\$0	\$0	\$0	\$2,346,521.93
2. Anticipated Annual Cost Share	\$0	\$0	\$0	\$1,266,717.69
3. Anticipated Total Project Funding by Year (line 1 plus line 2)	\$0	\$0	\$0	\$3,613,239.62
4. Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation	\$0	\$0	\$2,852,785.39	\$0
5. Current Beneficiary Project Funding to be paid through the Trust (line 1)	\$0	\$0	\$0	\$2,346,521.93
6. Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (line 4 plus line 5)	\$0	\$0	\$0	\$2,346,521.93
7. Beneficiary Share of Estimated Funds Remaining in the Trust	\$0	\$0	\$0	\$45,970,771.38
8. Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (line 7 minus line 6)	\$0	\$0	\$0	\$43,624,249.45

ATTACHMENT B

ELIGIBLE MITIGATION ACTION MANAGEMENT PLANS

ATTACHMENT B-1

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR DATTCO

DATTCO Inc. Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is to replace one (1) Class 4, diesel-powered school bus listed below with 2020 Model Year (MY) electric vehicle equivalent. The bus will be used in Middletown to deliver school students. It is the first of its kind in Connecticut. The project will enhance air quality by reducing diesel emissions; with the change from diesel to electric, the significant reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone. The project will also decrease diesel particulates in the New York/New Jersey/Connecticut maintenance area for fine particulate matter and will have health benefits in neighborhoods along those collection routes that have been disproportionately impacted by air pollution from diesel vehicles.

Vehicle Class	Engine Make	Engine Model	Engine Model Year	Vehicle Identification Number (VIN)	Engine Serial Number
Class 4	ICCO	3000	2009	4DRBUSKM79B122148	

DATTCO Inc. (DATTCO) shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrapping of the replaced trucks.

Project Title: *Electric School Bus Pilot*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), DATTCO shall begin providing the services outlined in the plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021 unless extended by DEEP.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting \$122,689.80 in 2018 Volkswagen NOx Mitigation Trust funding to DATTCO, the grantee. DATTCO has agreed to contribute an estimated additional \$169,267.20 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$291,957.00. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

DATTCO shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, DATTCO shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved and signed by DATTCO and DEEP.

DATTCO may use its own procurement processes to identify possible vendors for the purchase of the trucks. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust (Item 3 below)).

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from three potential vendors
- Summary of criteria used for selecting Vendor and name of Vendor selected (lowest bid is not required)
- Copy of Purchase Order issued for new trucks
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Trucks and Scrappage of Replaced Trucks, Completion of Project:

After selecting a Vendor and issuing a Purchase Order for the new trucks, DATTCO will track the progress of the manufacturing and outfitting of the new trucks for their intended use. When that process is complete, DATTCO shall take delivery of the vehicles.

DATTCO shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. This will include cutting the frames and drilling the engines to render the vehicle inoperable. DATTCO shall provide documentation that the vehicles have been scrapped. DATTCO shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the Vendor for delivered trucks and documentation of payment to Vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix A)
- Required photographic scrappage documentation for each replaced truck:
 - VIN plate
 - Engine plate showing serial number
 - Side profile of vehicle before destruction
 - Cut chassis rails
 - Engine block before drilling
 - Engine block with 3-inch diameter hole

- Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use
- Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Quarterly and Other Reports as Required.

DATTCO shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2020, and January 1, 2021). Follow-up status reports may be requested after May of 2021. DATTCO will also contribute material necessary for a final report upon completion of the project, which shall be no later than May 31, 2021 unless extended by DEEP. Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- *Status Updates for Semi-annual Reports*
- *Any required material for Final Report*

3. VW Mitigation Trust Grant Conditions

DATTCO commits to comply with the conditions listed in the Mitigation Trust Agreement between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix B.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Paul Kritzler (Assigned Project Manager)
Department of Energy and Environmental Protection
Bureau of Air Management
79 Elm Street
Hartford, CT 06106-5127
E-Mail: Paul.Kritzler@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by Wilmington Trust shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all grant payments shall not exceed 25% of your project costs.

Schedule of Tasks & Payments

Task & Deliverables	Task Delivery Date	Estimated Budget		
		Wilmington Trust	DATTCO Cost-Share	Project Total
1. Planning & Procurement: <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Estimates or proposals from three potential vendors Summary of criteria used for selecting Vendor and name of Vendor selected 	3/1/2020	\$0	\$0	\$0
<ul style="list-style-type: none"> Copy of Purchase Order issued for new trucks Documentation of down payments or other up-front payments made for the project 		\$0	\$0	\$0
2. Delivery of New Trucks, Scrappage of Replaced Trucks, Completion of Project <ul style="list-style-type: none"> Invoice from the Vendor for delivered trucks and documentation of payment to Vendor 	9/1/2020	\$0	\$169,267.00	\$169,267.00
<ul style="list-style-type: none"> Completed copy of Certificate of Engine/Chassis Destruction Required photographic scrappage documentation for replaced trucks Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use An invoice to DEEP for reimbursement under the grant 		\$122,689.80	\$0	\$0
4. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report Status Update for Second Semi-Annual Report Status Update for Third Semi-Annual Report Status Update for Fourth Semi-Annual Report. Status Update for Fifth Semi-Annual Report. Status Update for Sixth Semi-Annual Report. Required material for Final Report (upon completion but no later than 3/31/20) 	07/01/20 01/01/21 07/01/21 01/01/22 07/01/22	\$0	\$0	\$0
Total:		\$122,689.80	\$169,267.00	\$291,957.00

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed a maximum of \$122,689.80, which shall constitute full and complete

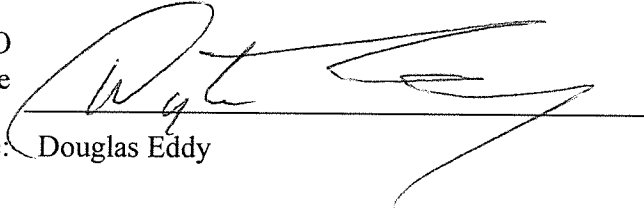
Grant #201910852

compensation from the Wilmington Trust for the replacement of one diesel school bus with one electric powered school bus. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix B.

Signature, DATTCO
Authorized Representative

Typed Name: Douglas Eddy

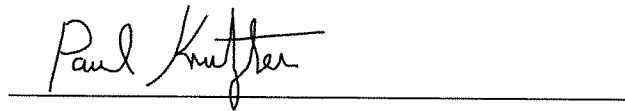


5-28-2020

Date

Signature, DEEP Assigned
Project Manager

Typed Name: Paul Kritzler



5/14/2020

Date

ATTACHMENT B-2

ELIGIBLE MITIATION ACTION MANAGEMENT PLAN FOR FIRST STUDENT

First Student Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is to replace the nine (9) Model Year (MY) 2006-2007 school buses listed below with 2021 MY Thomas Built Safe-T-Liner equivalents. These are the oldest buses in a fleet used to transport school students in Watertown, Ridgefield, Hamden, Weston and New Fairfield, CT. Because of technology advances on the new buses, the project will enhance air quality by reducing engine emissions and improve engine efficiency by decreasing fuel consumption. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone. The project will also decrease diesel particulates in a New York/New Jersey/Connecticut maintenance area for fine particulate matter. The reduction in diesel pollutants will have health benefits for all the student riders and for neighborhoods along those transportation routes that have been disproportionately impacted by air pollution from diesel vehicles.

Vehicle ID	Location	Vehicle Class	Engine Make	Engine Model	Engine Model Year	VIN	Engine Serial Number
60467	11797 Watertown	7	IC	International VT365	2007	4DRBUAFN17B439000	6.0HM2Y0339994
201217	11797 Watertown	7	IC	International VT365	2007	4DRBUAFN77A307400	296045
209906	12648 Ridgefield	6	IC	International VT365	2006	4DRBUAFN46A185335	6.0HM2Y0216226
201247	12648 Ridgefield	7	IC	International VT365	2007	4DRBUAFN27A307403	296101
201257	12648 Ridgefield	7	IC	International VT365	2007	4DRBUAFN47A307404	296499
60479	20629 Hamden	6	IC	International VT365	2007	4DRBUAFM87B438983	6.0HM2Y0335223
212146	20641 Weston	6	IC	International VT365	2006	4DRBUAFN46A252287	233622
201267	26002 New Fairfield	7	IC	International VT365	2007	4DRBUAFN67A307405	296227
201277	26002 New Fairfield	7	IC	International VT365	2007	4DRBUAFN87A307406	296391

First Student, Inc. (First Student) shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrapping of the replaced buses.

Project Title: *First Student – CT VW Round 2*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), First Student shall begin providing the services outlined in the plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021 unless extended by DEEP.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting \$500,194.85 in 2018 Volkswagen NOx Mitigation Trust funding to First Student the grantee. First Student has agreed to contribute an estimated additional \$269,335.69 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$769,530.54. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

First Student shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, First Student shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved and signed by First Student and DEEP.

First Student may use their own procurement processes to identify possible vendors for the purchase of the school buses. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust (Item 3 below)).

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from three potential vendors
- Summary of criteria used for selecting Vendor and name of Vendor selected (lowest bid is not required)
- Copy of Purchase Order issued for new buses
- Documentation of down payments or other up-front payments made for the project

~~Task 2: Delivery of New Buses and Scrappage of Replaced Buses, Completion of Project:~~

After selecting a Vendor and issuing a Purchase Order for the new buses, First Student will track the progress of the manufacturing and outfitting of the new buses for their intended use. When that process is complete, First Student shall take delivery of the vehicles.

First Student shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. This will include cutting the frames and drilling the engines. First Student shall provide documentation that the vehicles have been scrapped. First Student shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the Vendor for delivered buses and documentation of payment to Vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix A)
- Required photographic scrappage documentation for replaced bus:
 - VIN plate
 - Engine plate showing serial number
 - Side profile of vehicle before destruction
 - Cut chassis rails
 - Engine block before drilling
 - Engine block with 3-inch diameter hole
- Confirmation that the project is completed and that the buses are operating satisfactorily for their intended use
- Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Quarterly and Other Reports as Required.

First Student shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2020, and January 1, 2021). Follow-up status reports may be requested after May of 2021. First Student will also contribute material necessary for a final report upon completion of the project, which shall be no later than May 31, 2021 unless extended by DEEP. Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- *Status Updates for Semi-annual Reports*
- *Any required material for Final Report*

3. VW Mitigation Trust Grant Conditions

First Student commits to comply with the conditions listed in the Mitigation Trust Agreement between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix B.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Patrice Kelly (Assigned Project Manager)
 Department of Energy and Environmental Protection
 Bureau of Air Management
 79 Elm Street
 Hartford, CT 06106-5127
 E-Mail: patrice.kelly@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by Wilmington Trust shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all grant payments shall not exceed 65% of the project costs up to \$500,194.85.

Schedule of Tasks & Payments

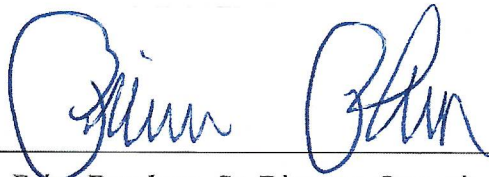
Task & Deliverables	Task Delivery Date	Estimated Budget		
		Wilmington Trust	First Student Cost-Share	Project Total
1. Planning & Procurement: <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Estimates or proposals from three potential vendors Summary of criteria used for selecting Vendor and name of Vendor selected 	January 31, 2020	\$0	\$0	\$0
<ul style="list-style-type: none"> Copy of Purchase Order issued for new buses Documentation of down payments or other up-front payments made for the project 	July 31, 2020	\$0	\$0	\$0
2. Delivery of New Buses, Scrappage of Replaced Buses, Completion of Project <ul style="list-style-type: none"> Invoice from the Vendor for delivered buses and documentation of payment to Vendor 	May 31, 2021	\$0	\$769,530.54	\$769,530.54

<ul style="list-style-type: none"> Completed copy of Certificate of Engine/Chassis Destruction Required photographic scrappage documentation for replaced buses Confirmation that the project is completed and that the buses are operating satisfactorily for their intended use Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant 	May 31, 2021	\$500,194.85	(\$500,194.85)	\$0
3. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report Status Update for Second Semi-Annual Report Status Update for Third Semi-Annual Report Status Update for Fourth Semi-Annual Report. Status Update for Fifth Semi-Annual Report. Status Update for Sixth Semi-Annual Report. Required material for Final Report (upon completion but no later than 5/31/21) 	07/01/20 01/01/21 07/01/21 01/01/22 07/01/22 01/01/23 05/31/21	\$0	\$0	\$0
Total:		\$500,194.85	\$269,335.69	\$769,530.54

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed a maximum of \$500,194.85, which shall constitute full and complete compensation from the Wilmington Trust for the replacement of 12 MY 2006-2007 school buses. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix B.

Signature, First Student
Authorized Representative

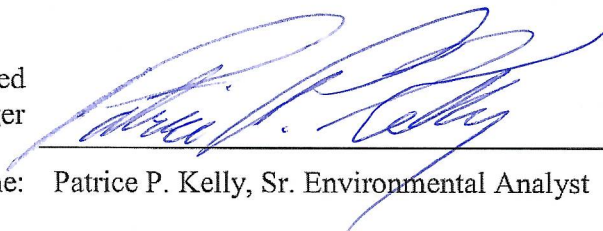


Typed Name: Brian Beecham, Sr. Director, Operational Taxes

4/28/2020

Date

Signature, DEEP Assigned
Project Manager



Typed Name: Patrice P. Kelly, Sr. Environmental Analyst

4/30/20

Date

ATTACHMENT B-3

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR STA NAUGATUCK

Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is for Student Transportation of America, Inc. (STA) to replace 18 2008 Model Year diesel powered school buses, described in Appendix A, with equivalent diesel school buses described in Appendix B. The new buses will be used to transport school students in Naugatuck, CT. Because of technology advances on the new buses, the project will enhance air quality by reducing engine emissions and improve engine efficiency by decreasing fuel consumption. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone. The project will also decrease diesel fine particulate emissions. The reduction in diesel pollutants will have health benefits for all the students that ride the new buses and for neighborhoods along those transportation routes that have been disproportionately impacted by air pollution from diesel vehicles.

STA shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrappage of the replaced buses.

Project Title: *Replacement of 18 Diesel School Buses in Naugatuck, CT*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), STA shall begin providing the services outlined in this Plan, and continue to provide services through the completion of the project, which will be no later than April 30, 2021.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting a maximum of \$912,070 in Volkswagen NOx Mitigation Trust funding to STA, the grantee. STA has agreed to contribute an estimated additional \$491,114 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$1,403,184. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Eligible Mitigation Action Management Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

STA shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, STA shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved by DEEP and STA.

STA may use their own procurement processes to identify possible vendors for the purchase of the buses. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000. This is described in Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix D.

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from potential vendors
- Summary of criteria used for selecting vendor
- Name and address of vendor selected
- Copy of purchase order issued for new buses
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Buses and Scrappage of Replaced Buses, Completion of Project:

After selecting a vendor and issuing a purchase order for the new buses, STA will track the progress of the manufacturing and outfitting of the new buses for their intended use. When that process is complete, STA shall take delivery of the vehicles.

STA shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. Disabling the engine consists of cutting, drilling, or punching a three inch by three inch (3" x 3") hole in the engine block. Disabling the chassis consists of cutting completely through the frame/frame-rails on each side of the vehicle at a point located between the front and rear axles.

STA shall provide documentation that the vehicles have been scrapped. STA shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the vendor for delivered buses and documentation of payment to vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix C)
- Required photographic scrappage documentation for replaced buses, at a minimum, must include:
 - Side profile of vehicle
 - VIN
 - Engine Label
 - Chassis rails cut in half
 - Engine block, prior to hole
 - Engine block, after hole
 - Other pictures as needed

- Confirmation that the project is completed and that the buses are operating satisfactorily for their intended use
- Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Quarterly and Other Reports as Required.

STA shall provide DEEP with status updates to be included in DEEP’s semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2020, and January 1, 2021). Follow-up status reports may be requested after April of 2021. STA will also contribute material necessary for a final report to Wilmington Trust upon completion of the project, which shall be no later than April 30, 2020.

Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- Status Updates for Semi-annual Reports
- Any required material for Final Report

3. VW Mitigation Trust Grant Conditions

STA commits to comply with the conditions listed in the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Louis Corsino (Assigned Project Manager)
Department of Energy and Environmental Protection
Bureau of Air Management
79 Elm Street
Hartford, CT 06106-5127
E-Mail: louis.corsino@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by April 30, 2021.**

6. Schedule of Tasks & Payments:

Payments by the Commissioner shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all payments shall not exceed 65% of the total project cost with a maximum cap of \$912,070.

Task & Deliverables	Task Delivery Date	Estimated Budget		
		VW Funds	STA Cost-Share	Project Total
1. Planning & Procurement <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Estimates or proposals from potential vendors Summary of criteria used for selecting vendor Name and address of vendor selected 	January - March 2020	\$0	\$0	\$0
	April - June 2020	\$0	\$0	\$0
2. Delivery of New buses, Scrappage of Replaced buses, Completion of Project <ul style="list-style-type: none"> Invoice from the vendor for delivered buses and documentation of payment to vendor 	October – December 2020	\$0	\$1,403,184	\$1,403,184
	March 31, 2021	\$912,070	-\$912,070	\$0
4. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report Status Update for Second Semi-Annual Report Status Update for Third Semi-Annual Report Status Update for Fourth Semi-Annual Report Status Update for Fifth Semi-Annual Report Required material for Final Report (upon completion but no later than 4/30/21) 	07/01/20	\$0	\$0	\$0
	01/01/21			
Total:	07/01/21	\$912,070	\$491,114	\$1,403,184
	01/01/22			
	07/01/22			
	04/30/21			

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed 65% of the total project cost with a maximum cap of \$912,070, which shall constitute full and complete compensation from the DEEP for the replacement of 18 diesel school buses. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

Signature,
Student Transportation of
America, Inc.

Authorized Representative

Typed Name



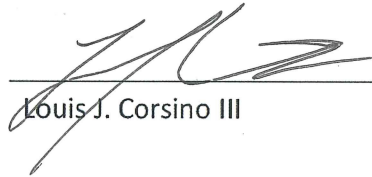
Dana Jean Morris

12/16/2019

Date

Signature,
DEEP Assigned Project
Manager

Typed Name



Louis J. Corsino III

12/17/2019

Date

ATTACHMENT B-4

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR YALE UNIVERSITY

Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is for Yale University to replace a Class 8 shuttle bus, described in Appendix A, with an equivalent fully electric shuttle bus described in Appendix B. The new bus will be used for public transportation in the congested downtown area of New Haven. The project will enhance air quality by eliminating tailpipe emissions from this vehicle. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone and in a neighborhood that has been disproportionately impacted by air pollution from diesel vehicles. Additionally, by choosing to replace the diesel shuttle bus with a fully electric bus the greatest amount of greenhouse gas reductions possible will be achieved by this scale and scope of a project.

Yale University shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrappage of the replaced trucks.

Project Title: *Replacement of One Class 8 Diesel Bus with a Fully Electric Shuttle Bus and the Installation of the Associated Charging Infrastructure.*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), Yale University shall begin providing the services outlined in this Plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting a maximum of \$505,500 in 2019 Volkswagen NOx Mitigation Trust funding to Yale University, the grantee. Yale University has agreed to contribute an estimated additional \$337,000 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$842,500. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Eligible Mitigation Action Management Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Delivery and Installation of Charging Infrastructure

Task 4: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

Yale University shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, Yale University shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to

achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved by DEEP and Yale University.

Yale University may use their own procurement processes to identify possible vendors for the purchase of the bus and the charging infrastructure. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000. This is described in Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix D.

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from potential vendors
- Summary of criteria used for selecting vendor
- Name and address of vendor selected
- Copy of purchase order issued for new trucks
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Bus and Scrappage of Replaced Bus:

After selecting a vendor and issuing a purchase order for the new bus, Yale University will track the progress of the manufacturing and outfitting of the new bus for their intended use. When that process is complete, Yale University shall take delivery of the vehicle.

Yale University shall render the replaced bus and the engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. Disabling the engine consists of rendering the engine inoperable and at a minimum, to cut a three inch by three inch (3" x 3") hole in the engine block. Disabling the chassis consists of cutting completely through the frame/frame-rails on each side of the vehicle at a point located between the front and rear axles.

Yale University shall provide documentation that the vehicle has been scrapped. Yale University shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the vendor for delivered trucks and documentation of payment to vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix C)
- Required photographic scrappage documentation for replaced trucks, at a minimum, must include:
 - Side profile of vehicle
 - VIN
 - Engine Label with serial number visible

- Chassis rails cut in half
- Engine block, prior to hole
- Engine block, after hole
- Other pictures as needed
- Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use
- A Completed copy of the Final Request for Payment Form with attachments to DEEP for reimbursement under the grant

Task 3: Delivery and Installation of Associated Charging Infrastructure.

After selecting a vendor and issuing a purchase order for the associated charging infrastructure, Yale University shall have the infrastructure installed at the Hamden facility located at 1349 Dixwell Avenue. Specifications and design of the associated charging infrastructure at the Hamden garage will be determined by the selected vendor.

Yale University shall submit to DEEP an invoice for payment along with confirmation that the associated charging infrastructure has been completed. Confirmation shall consist of photographs of the installed units and a signed statement in the invoice or payment request letter. This may be combined with the invoice and deliverables for the shuttle bus replacement in task 2 above.

Task 3 Deliverables:

- Invoice from the vendor for delivery and installation of the associated charging infrastructure and documentation of payment to vendor
- Confirmation that the project is completed and that the associated charging infrastructure is operating satisfactorily
- An invoice to DEEP for reimbursement under the grant

Task 4: Provide Updates and Information for Semi-Annual and Other Reports as Required.

Yale University shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2019, and January 1, 2020). Follow-up status reports may be requested after May of 2021. Yale University will also contribute material necessary for a final report to Wilmington Trust upon completion of the project, which shall be no later than May 31, 2021.

Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;

- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 4 Deliverables:

- Status Updates for Semi-annual Reports
- Any required material for Final Report

3. VW Mitigation Trust Grant Conditions

Yale University commits to comply with the conditions listed in the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Kathleen Knight (Assigned Project Manager)
Department of Energy and Environmental Protection
Bureau of Air Management
79 Elm Street
Hartford, CT 06106-5127
E-Mail: Kathleen.Knight@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by the Commissioner shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all payments shall not exceed 60% of the total project cost with a maximum cap of \$505,500.

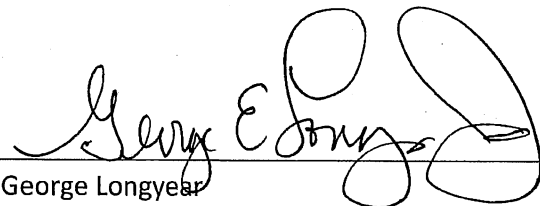
Task & Deliverables	Task Delivery Date	Estimated Budget		
		VW Funds	Yale Cost-Share	Project Total
1. Planning & Procurement <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Estimates or proposals from potential vendors Summary of criteria used for selecting vendor Name and address of vendor selected 	December 2019 – January 2020	\$0	\$0	\$0
	<ul style="list-style-type: none"> Copy of Purchase Order issued for new bus & charging infrastructure Documentation of down payments or other up-front payments made for the project 	February - April 2020	\$0	\$0
2. Delivery of Bus, Scrappage of Replaced Bus, Completion of Project 3. Delivery and Installation of Associated Charging Infrastructure, and Completion of Charging Infrastructure Project <ul style="list-style-type: none"> Invoice from the vendor for delivered bus and the documentation of payment to vendor(s) Invoice from the vendor for associated charging infrastructure and the documentation of payment to vendor(s) 	April – July 2020	\$0	\$842,500	\$842,500
	<ul style="list-style-type: none"> Required photographic scrappage documentation for replaced bus Completed copy of Certificate of Engine/Chassis Destruction Confirmation that the project is completed and that the bus is operating satisfactorily for their intended use Confirmation that the charging infrastructure is completed and operating satisfactorily for their intended use An invoice to DEEP for reimbursement under the grant 	May 31, 2021	\$505,500	-\$505,500
4. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report 	07/01/20 01/01/21	\$0	\$0	\$0

<ul style="list-style-type: none"> • Status Update for Second Semi-Annual Report • Status Update for Third Semi-Annual Report • Status Update for Fourth Semi-Annual Report. • Status Update for Fifth Semi-Annual Report. • Required material for Final Report (upon completion but no later than 4/30/21) 	07/01/21 01/01/22 07/01/22 05/31/21			
Total:		\$505,500	\$337,000	\$842,500

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed 60% of the total project cost with a maximum cap of \$505,500, which shall constitute full and complete compensation from the DEEP for the replacement of one Class 8 diesel bus. The total sum of all payments shall not exceed total funds committed by DEEP.

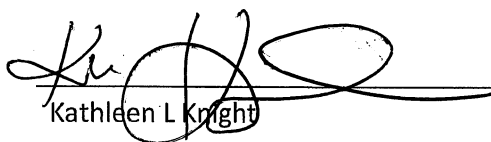
Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

Signature,
George Longyear
Yale University,
Authorized Representative
Typed Name


George Longyear

1/8/2020
Date

Signature,
Kathleen L Knight
DEEP Assigned Project
Manager
Typed Name


Kathleen L Knight

1/8/2020
Date

Appendix A: Eligible Trucks to be Replaced

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Engine Model Year	Vehicle Identification Number (VIN)	Engine Serial Number
Class 8	Shuttle Bus	Thomas	120YN	2009	1T7YN2A28A1122880	926963S0016029

Appendix B: Replacement Vehicle & Infrastructure Specifications

Note: Initial specifications for replacement vehicles below is preliminary based on the initial grant application and may change once actual vendor selection is completed.

Vehicle Class	Vehicle Type	Vehicle Make	Vehicle Model	Engine Model	Engine Model Year
Class 8	Shuttle Bus	Proterra	Catalyst E2	J08E-VB	2020

ATTACHMENT C

**DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION
IMPLEMENTATION**

ATTACHMENT C

DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION

The Connecticut Department of Energy and Environmental Protection (DEEP) will provide detailed reporting on the Diesel Emissions Mitigation Trust project in two ways:

1. Timely updates to DEEP's Volkswagen (VW) Settlement Information Webpage, and
2. Connecticut's semiannual reporting obligation to Wilmington Trust (the "Trustee")

DEEP maintains a webpage that has been designed to support public access to information relative to the VW Settlement and DEEP's administration of mitigation funds so as to implement the program in an open and transparent manner. DEEP's VW Settlement Information webpage and all supporting information and documentation can be found at: <https://portal.ct.gov/DEEP/Air/Mobile-Sources/VW/VW-Settlement---Admin-Archive>. Timely updates to the webpage as well as direct outreach via email to those who have requested notification will inform the general public on project solicitations, and project status including when the projects identified herein have been completed.

Subparagraph 5.3 of the Environmental Mitigation Trust Agreement for State Beneficiaries details Connecticut's Reporting Obligations" "For each Eligible Mitigation Action, no later than six months after receiving its first disbursement of Trust Assets, and thereafter no later than January 30 (for the preceding six-month period of July 1 to December 31) and July 30 (for the preceding six-month period of January 1 to June 30) of each year, each Beneficiary shall submit to the Trustee a semiannual report describing the progress implementing each Eligible Mitigation Action during the six-month period leading up to the reporting date (including a summary of all costs expended on the Eligible Mitigation Action through the reporting date). Such reports shall include a complete description of the status (including actual or projected termination date), development, implementation, and any modification of each approved Eligible Mitigation Action. Beneficiaries may group multiple Eligible Mitigation Actions and multiple sub-beneficiaries into a single report. These reports shall be signed by an official with the authority to submit the report for the Beneficiary and must contain an attestation that the information is true and correct and that the submission is made under penalty of perjury. To the extent a Beneficiary avails itself of the DERA Option described in Appendix D-2, that Beneficiary may submit its DERA Quarterly Programmatic Reports in satisfaction of its obligations under this Paragraph as to those Eligible Mitigation Actions funded through the DERA Option. The Trustee shall post each semiannual report on the State Trust's public-facing website upon receipt."

DEEP shall, in the semiannual report following the Trustee's initial disbursement of funds as directed by DEEP, describe the progress implementing this Eligible Mitigation Action that will include a summary of all costs expended on the Eligible Mitigation action through the reporting date. The report will also include a complete description of the status, development, implementation (including project schedule and milestone updates), and any modification to the projects under this Eligible Mitigation Action.

ATTACHMENT D

**DETAILED COST ESTIMATES FROM SELECTED OR POTENTIAL VENDORS FOR EACH
PROPOSED EXPENDITURE EXCEEDING \$25,000**

Class 7	School Bus	Cummins	B6.7	2019	Diesel	\$77,954.66
Class 7	School Bus	Cummins	B6.7	2019	Diesel	\$77,954.66
Class 7	School Bus	Cummins	B6.7	2019	Diesel	\$77,954.66
Class 7	School Bus	Cummins	B6.7	2019	Diesel	\$77,954.66
Total						\$1,403,183.88

Yale University Shuttle Bus Replacement (Attachment D-4)

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Model year (MY)	Fuel	Cost
Class 8	Shuttle Bus	Proterra	J08E-VB	2020	Electric	\$739,000.00
					Associated Charging Infrastructure (Proterra Universal Plug In Charger plus Installation)	\$103,500.00
Total						\$842,500.00

See attached vendor cost estimates for DATTCO, First Student, STA Naugatuck, and Yale University Class 4-8 buses.

ATTACHMENT D-1

VENDOR ESTIMATE FOR DATTCO



RETAIL PURCHASE ORDER
FOR MOTOR VEHICLE

[Empty rounded rectangular box]

[Empty rounded rectangular box]

Stock#: 161327 VIN:1FDFE4FS5KDC74927 2020 COLLINS DE516
Engine: ELECTRIC

Price: \$269,198.97

Total Price \$269,198.97

Total \$269,198.97

I have read the terms and conditions on the back hereof and agree to them as a part of this order the same as if they were printed above my signature. The front and back hereof comprise the entire agreement affecting this order and no other agreement or understanding of any nature concerning same has been made or entered into. I hereby acknowledge receipt of a copy of this order, and certify that I am of legal age.

THIS ORDER IS NOT BINDING UNTIL SIGNED AND ACCEPTED BY DEALER.

PURCHASER'S SIGNATURE DATE

ACCEPTED BY

CO-SIGNER'S SIGNATURE DATE

AUTHORIZED SIGNATURE DATE

FINAL PAYMENT BANK OR CERTIFIED CHECK PLEASE.

ADDITIONAL TERMS OF AGREEMENT

"I", "me", "Consumer" and "Buyer" refer to the Purchaser. "You", "Your", and "Dealer" refer to the Seller.

I agree this order is subject to the following terms:

1. I understand that: no guarantee should be implied that the vehicle is merchantable of fit for any special purpose; you do not authorize any other person to assume any liability for you. Any verbal promise is void unless it is in writing and signed by a selected person of the dealer and incorporated into the order.
2. In case this order is for a used vehicle: I understand that there is no guarantee (unless it is written on the face of this order or noted in the Terms of Warranty). The mileage shown on the speedometer is not guaranteed or assumed to be correct. The express warranty on vehicle being purchased will be voided from damages resulting from an automobile accident or from misuse of the used motor vehicle by the consumer. Consumer's warranty period will be extended by any time period during the which the used motor vehicle is in the possession of the dealer or his authorized agent for the purpose of repairing the used motor vehicle under the terms and obligation of the express warranty.
3. In case this order is for a new vehicle: I understand that it is subject to your ability to get delivery from the manufacturer; I agree to pay any increase in price made by the manufacturer at any time before date of delivery; I agree to pay any and all taxes (State and Federal Excise and Sales Taxes) which are or may be imposed on this sale by State or Federal Governments.
4. A. If part of the purchase price is covered by a vehicle to be turned in, I agree to deliver the vehicle to you when I sign this order. If you loan back this vehicle to me (pending delivery of the new vehicle) I agree that you may re-appraise the allowance made for the turned in vehicle (as stated on the face of this order) at the time I deliver the trade-in vehicle to you I agree to give you satisfactory proof that I own the vehicle and to sign a mileage certification statement for the trade-in vehicle. I warrant (guarantee) (a) that there are no liens or encumbrances on the trade-in vehicle except as shown on the face of this agreement; (b) that the trade-in does not have a welded or bent frame and that the motor block is cracked, welded or repaired; (c) that the vehicle has not been flooded or damaged or declared a total loss for insurance purposes; and (d) that the emission controls have not been removed or tampered with.
B. In accordance with Connecticut Public Act 79-238 Motor Vehicle Emissions Sec. 2(a) No Person shall fail to maintain in good working order or remove, dismantle or otherwise cause to be inoperative any equipment or feature constituting an operational element of the air pollution control system or mechanism or on the vehicle.
C. Consumer is responsible for any repairs to emission control system to conform to emissions standards.
5. If this order is for a new vehicle which you do not have in stock when the order is placed, and you are not able to provide it within 120 days of the specified delivery date, then I may cancel this order at any time after I give you 10 days notice (during which you may still deliver the vehicle). If I do not cancel the order as above, I shall be entitled to the return of any deposit in cash which I have made. If the deposit has been a trade-in vehicle, I shall be entitled to its return if it has not been sold. If the deposited vehicle has been sold, you may pay me its sale price less 20 per cent and less the cost of reconditioning.

6. I agree to accept and pay for the vehicle within 5 days after I'm notified that it is ready for delivery. If part of the purchase price is to be financed, I agree to execute such forms of note and conditional bill of sale which you shall provide. You shall have the right to demand payment of the balance in cash if my credit is not approved.
7. If I do not accept delivery of the vehicle within 5 days, (after I have been notified that this is ready for delivery): I will forfeit any deposit previously made on this order (whether by cash or trade-in vehicle); you may retain such deposit which will then (at your option) constitute liquidated damages for my breach of this contract.
8. Buyer shall not be entitled to recover from the selling dealer any consequential damages, damages to property, damages for loss of use, loss of time, loss of profits, or income, or any other incidental damages.
9. This order is not transferrable.

Terms of Warranty

This Motor Vehicle Not Guaranteed

By _____

This Vehicle is subject to a limited warranty

By _____

For _____ Miles or _____ Months, Whichever occurs first, copy given client.

THIS VEHICLE IS NOT GURANTEED

"AS IS" This vehicle is sold "AS IS". This means that you will lose your implied warranties. You will have to pay for any repairs needed after Sale. If we have made any promises to you, the law says, We must keep them, even if we sell "AS IS". To protect yourself, ask us to put all promises into writing.

THE MILEAGE AS SHOWN ON THE ODOMETER OF THE MOTOR VEHICLE TO BE PURCHASED IS: _____



315 SOUTH STREET
 NEW BRITAIN, CT 06051
 Phone: (860) 229-4878 Fax: (860) 224-4550



SALES INVOICE: V10001667

BILL TO
 DATTCO FLEET - &DF
 583 SOUTH STREET
 NEW BRITAIN CT 06051
 P: (860) 229-4878
 F:

DELIVER TO
 DATTCO FLEET - &DF
 583 SOUTH STREET
 NEW BRITAIN CT 06051
 P: (860) 229-4878
 F:

DATE	SALE TYPE	ORDER STATUS	DELIVERY DATE	INVOICE DATE	SALESPERSON	TERMS	CUSTOMER REFERENCE
2/25/2020	VFLEET	QUOTE	5/25/2020	5/25/2020	ADMINISTRATO.P	AR	ELECTRIC

COMMENTS:

UNIT(S) FOR SALE

UNTID	YR - MAKE - MODEL	SERIAL NUMBER / ITEM DESCRIPTION	PRICE
161327	2020 - COLLINS - DE516	1FDFE4FSSKDC74927	269,198.97

Sales Price	269,198.97
	-
	269,198.97
TAX	+ 0.00
Total Price	= 269,198.97
Less Deposit or Down Payment	- 0.00
Unpaid Balance/Amount to Finance	= 269,198.97

x _____
 Buyer Signature

x _____
 Seller Signature

 Date

 Date

Please Remit Payment To:
 DATTCO SALES & SERVICE
 583 SOUTH STREET
 NEW BRITAIN, CT. 06051

ATTACHMENT D-2

VENDOR ESTIMATE FOR FIRST STUDENT

Vehicle Quote Request -Bus & Automotive

Request Date	September 10, 2019	Request #	21009
Request Received Date	September 10, 2019	*Request # assigned by Vehicle Procurement	
Bus Purchase Priority	New Business	Request Type	Location Specific
Requestor Name	Jim Woods	Loc ID	
Requestor Phone	(856) 751-7414	Region	
Location Name		AGM	
Contract Name	Easton, Redding, Region 9 Public Schools	SVP	

Expected Inservice Date	August 01, 2020	School Start Date	August 28, 2020
Location Manager	TBA	Phone	
Delivery Street Address 1	173 E Aurora St		
City	Waterbury	Province/State	CT
Country	USA	Postal Code	00000-0000

Model Type	Type C Conventional	Province/State Specification	CT
Intended Purpose	Yellow School Bus		
Quantity Required	1	# of Seated Passengers	35
Fuel Specification	Type C Diesel	Track Seating	None
Brake Specification	Air	Integrated Child Seats (ICS)	First row
		# of ICS seats	4
		**Choose WC configuration	# of Wheelchairs
			Seat W/C Positions?
			Lift Position

First Student Standard and Climate Package Options for the Model/State you selected are listed for your reference. These options will automatically be included in the supplier pricing to be subsequently provided.

First Student Standard Options for Specified Model	Type C Conventional Air	Climate Package Options for Specified State	Package 3
Child CheckMate/TheftMate	LED Stop/Tail/ License/Marker Lights	Block Heater	
Zonar (Factory Installed)	LED Side Directional Lights	High Output Water Pump	
Two-way Radio/Antenna Pre-Wire	LED Warning Lights	Pressure Treated/Marine Plywood Floors	
Camera Pre-Wire (4 Locations)	LED Interior Lights	Stepwell Heater	
Extra Auxiliary Fan	Body Disconnect	1 50K BTU & 1 84K BTU Heaters	
Driver's Dome Light	3-Switch with Entrance Door Override	Insulated Roof and Wall Bows	
Remote Heated Mirrors	Backing Alarm	3-760 Batteries	
Extended Left Mirror Bracket (for greater visibility)		270 AMP Alternator	
Front & Rear Mud Flaps	Crossing Arm & Magnet	Winter Cold Front	
High-Back Student Seating	Orange Driver's Seat Belt	On/Off Fan	
Three-Piece Rubber Flooring	Air Suspension Driver's Seat	Spray Stepwell Coating	
Yellow Nosed Step Treads (if Available)	Air Entrance Door	Snow Tires	
Yellow Textured Hand Rails	Entrance Door Interlock	Performance Friction Brake Rotors (Hydraulic only)	
Air Drain	Front & Rear Automatic Slack Adjusters	Stainless Steel Coolant Transition Pipes (if applicable)	
Air Dryer	Synthetic Rear Axle Lube		
Rear Air Cam, Long Stroke Brake Chamber	Spring Actuated Parking Brake		
Air Compressor	Maximum Allowable Window Tint		
Synthetic Front Seals & Bearings			
Dual Tire Valve Stems			
Performance Friction Brake Rotors			
Brake Dust Shields			
Upgraded Undercoating (Edge-Coat/Underguard)			
Stainless Steel Exhaust & Brake Lines			
ABS-Full Vehicle Wheel Control (4-Channel)			

Other specifications - Please ONLY list specifications required but not identified above.

Acoustical Ceiling	Yes	Drop Chains	Yes	Tow Hooks	Yes
Total Number of Hatches	Two	Mid-ship Heater	Yes	Under-storage (Type C & D Only)	No
Air Conditioning	No	Plywood Floors	Yes	White Roof	Yes
Air Suspension (Type C & D Only)	Yes	Camera Options	3-Camera System (Type C & D)	Fuel Fired Heater	No
AM/FM Radio w/ PA	Yes	Seat Belts	3-Point Belts		
Coaxial Cable	Yes	Strobe Light	Yes		

Additional information- Please explain any options required not previously identified above as well as specifics relating to seat belts, etc.

SynTec seat frames

Below to be completed by supplier:						
Vehicle Price Breakdown:						
Quote Number:			Chassis Type:			
Quote Request Date:	September 10, 2019		Quote Received Date:			
Supplier:						
Quantity Quoted	Actual Capacity		Bus Passenger Size	Quoted Currency	Approx. Chassis Cost	
	Ambulatory	Wheelchair	(Size required, i.e. 54 pax size)	(USD \$ or CAD \$)	(Type A only)	
1						
Base/Federal Cost	State/Province Upgrade Cost	Additional Options Cost	Lift Option Cost	Freight Cost	Total Cost Per Unit	Extended Cost
					\$ 83,994.18	\$ 83,994.18

Vehicle Quote Request -Bus & Automotive

Request Date	September 10, 2019	Request #	21559
Request Received Date	September 10, 2019	<i>*Request # assigned by Vehicle Procurement</i>	
Bus Purchase Priority	New Business	Request Type	Location Specific
Requestor Name	Jim Woods	Loc ID	
Requestor Phone	(856) 751-7414	Region	
Location Name		AGM	
Contract Name	New London Public Schools	SVP	

Expected Inservice Date	August 15, 2020	School Start Date	September 03, 2020
Location Manager	TBD	Phone	
Delivery Street Address 1	134 Williams Street		
City	New London	Province/State	CT
Country	USA	Postal Code	06320-0000

Model Type	Type C Conventional	Province/State Specification	CT
Intended Purpose	Yellow School Bus		
Quantity Required	1	# of Seated Passengers	71
Fuel Specification	Type C Diesel	Track Seating	None
Brake Specification	Air	Integrated Child Seats (ICS)	Other-explain below
		# of ICS seats	8

***Choose WC configuration*

# of Wheelchairs	
Seat W/C Positions?	
Lift Position	None

First Student Standard and Climate Package Options for the Model/State you selected are listed for your reference. These options will automatically be included in the supplier pricing to be subsequently provided.

First Student Standard Options for Specified Model	Type C Conventional Air	Climate Package Options for Specified State	Package 3
Child CheckMate/TheftMate	LED Stop/Tail/ License/Marker Lights	Block Heater	
Zonar (Factory Installed)	LED Side Directional Lights	High Output Water Pump	
Two-way Radio/Antenna Pre-Wire	LED Warning Lights	Pressure Treated/Marine Plywood Floors	
Camera Pre-Wire (4 Locations)	LED Interior Lights	Stepwell Heater	
Extra Auxiliary Fan	Body Disconnect	1 50K BTU & 1 84K BTU Heaters	
Driver's Dome Light		Insulated Roof and Wall Bows	
Remote Heated Mirrors	Backing Alarm	3-760 Batteries	
Extended Left Mirror Bracket (for greater visibility)		270 AMP Alternator	
Front & Rear Mud Flaps	Crossing Arm & Magnet	Winter Cold Front	
High-Back Student Seating	Orange Driver's Seat Belt	On/Off Fan	
Three-Piece Rubber Flooring	Air Suspension Driver's Seat	Spray Stepwell Coating	
Yellow Nosed Step Treads (If Available)	Air Entrance Door	Snow Tires	
Yellow Textured Hand Rails	Entrance Door Interlock	Performance Friction Brake Rotors (Hydraulic only)	
Air Drain	Front & Rear Automatic Slack Adjusters	Stainless Steel Coolant Transition Pipes (if applicable)	
Air Dryer	Synthetic Rear Axle Lube		
Rear Air Cam, Long Stroke Brake Chamber	Spring Actuated Parking Brake		
Air Compressor	Maximum Allowable Window Tint		
Synthetic Front Seals & Bearings			
Dual Tire Valve Stems			
Performance Friction Brake Rotors			
Brake Dust Shields			
Upgraded Undercoating (Edge-Coat/Underguard)			
Stainless Steel Exhaust & Brake Lines			
ABS-Full Vehicle Wheel Control (4-Channel)			

Other specifications - Please ONLY list specifications required but not identified above.

Acoustical Ceiling	Yes	Drop Chains	No	Tow Hooks	Yes
Total Number of Hatches	Two	Mid-ship Heater	Yes	Under-storage (Type C & D Only)	No
Air Conditioning	No	Plywood Floors	Yes	White Roof	Yes
Air Suspension (Type C & D Only)	Yes	Camera Options	3-Camera System (Type C & D)	Fuel Fired Heater	No
AM/FM Radio w/ PA	Yes	Seat Belts	No		
Coaxial Cable	Yes	Strobe Light	No		

Additional information- Please explain any options required not previously identified above as well as specifics relating to seat belts, etc.

CT Spec; First 4 rows Integrated Child Seats

Below to be completed by supplier:						
Quote Number:		355669		Vehicle Price Breakdown:		
Quote Request Date:		April 29, 2019		Chassis Type:		
Supplier:		Thomas		Quote Received Date:		
Quantity Quoted	Actual Capacity		Bus Passenger Size	Quoted Currency	Approx. Chassis Cost	
1	71		(Size required, i.e. 54 pax size)	(USD \$ or CAD \$)	(Type A only)	
				USD		
Base/Federal Cost	State/Province Upgrade Cost	Additional Options Cost	Lift Option Cost	Freight Cost	Total Cost Per Unit	Extended Cost
\$ 85,345.00				\$ 913.00	\$ 86,258.00	\$ 86,258.00

ATTACHMENT D-3

VENDOR ESTIMATE FOR STA NAUGATUCK



INTEGRATED CE S BUS

Sales Proposal For:
STA 1 2868-665 CT 72 CE

Presented By:
IC BUS, LLC

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

Code	Description
PB10500	Base Chassis, Model INTEGRATED CE S BUS with 276.00 Wheelbase, N/A CA, and 148.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CAC	FRAME RAILS High Strength Low Alloy Steel (50,000 PSI Yield); 10.125" x 3.062" x 0.312" (257.2mm x 77.8mm x 8.0mm); 480.1" (12195mm) Maximum OAL <u>Includes</u> : CHASSIS PAINT Chassis Painted Prior to Body Mounting : FRAME RAILS All holes Laser Aligned and Machine Punched, Powder Coated Prior to Full Assembly, Assembled in Fixture using "Grade 8" Bolts : FRAME REINFORCEMENT, SPECIAL 3.30" x 1.80" x 0.312" x 31.50" Inverted "L" in Front Shock Absorber Mounting Area
1LLE	BUMPER, FRONT Contoured, Steel, Severe Duty <u>Includes</u> : BUMPER, FRONT THICKNESS 1/4 Inch
1LMW	CROSSING GATE, FRONT Electric, Yellow Blade, Bumper Mounted <u>Includes</u> : CONTROL ASSEMBLY Solid State, Located Rear of Front Bumper, Heater not Required : CROSSING GATE, FRONT Matches Contour of Bumper
1SAM	CROSSMEMBER, REAR, AF (2)
1WJE	WHEELBASE RANGE 276" (700cm) Only
2ASH	AXLE, FRONT NON-DRIVING {Meritor MFS-10-122A} I-Beam Type, 10,000-lb Capacity <u>Includes</u> : AXLE, FRONT SQUARING to Plus or Minus .015 Inch, using a Special Fixture to Assure Parallelism of Springs <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
3ADB	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 10,000-lb Capacity, with Shock Absorbers <u>Includes</u> : SPRING PINS Bolt and Nut Type : SPRING PINS Rubber Bushings, Maintenance-Free <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4100	BRAKE SYSTEM, HYDRAULIC {Wabco} Split System, with Automatic Adjustment and Four Channel ABS
4GBJ	BRAKE, PARKING {Bosch} DSSA Type, 12" x 3"; for Hydraulic Brake Chassis; Foot Operated in Cab; Differential Mounted <u>Includes</u> : BRAKE, PARKING Foot Activated Parking Brake
4JNP	BRAKES, FRONT, HYDRAULIC DISC Quadraulic; Four 70mm Diameter Pistons
4JNX	TRACTION CONTROL, HYDRAULIC Automatic; Hydraulic Brake System, with Electronic Stability Control
4NNL	BRAKES, REAR, HYDRAULIC DISC Quadraulic; Four 70mm Diameter Pistons
4WGT	PARKING BRAKE INTERLOCK Parking Brake Cannot be Released until Ignition Switch is in the "ON" Position and the Service Brake Pedal is Applied, Use with Hydraulic Brake Chassis Only

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
4WXP	GVWR LIMITATION FOR BUS with Hydraulic Brakes, Limited to 29,800-lbs Maximum to meet FMVSS 105 Requirements, for Conventional Bus
5708	STEERING COLUMN Tilting
5CAL	STEERING WHEEL 2-Spoke, 18" Dia., Black
5PRR	STEERING GEAR {TRW (Ross) TAS66} Power
6DGA	DRIVELINE SYSTEM {Dana Spicer} SPL100, for 4x2/6x2
7BLA	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Under Right Rail, for Single Long Horizontal Tail Pipe
7WBK	TAIL PIPE (1) Horizontal, Long, Exits Right Side Through Bumper
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment <u>Includes</u> : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : MISCELLANEOUS FEATURES Modular, Loom Protected, Grommets in all Applicable Body Openings, Assembled in Computer Assisted Fixture which Verifies Continuity and Correct Assembly Prior to Installation : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : TURN SIGNAL FLASHER : TURN SIGNAL SWITCH Self-Cancelling with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WIRING, CHASSIS Color Coded and Continuously Numbered
8GXH	ALTERNATOR {Leece-Neville AVI160P2007} Brush Type; 12 Volt 210 Amp. Capacity, Pad Mount
8MSG	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud
8TTK	BATTERY BOX Steel, with Sliding Tray, 25.25" Wide, for Standard Batteries, 1-3 Battery Capacity, Mounted Left Side Behind Front Axle Perpendicular to Frame Rail
8TTN	BATTERY BOX COVER Plastic, Front Cover for Frame Mounted Battery Box Compartment
8TUT	COLLISION MITIGATION SYSTEM Omit
8VAZ	HORN, ELECTRIC (2) Trumpet Style, Mounted on Top of Mega-Bracket
8WPB	HEADLIGHTS Halogen, Composite Aero Design, with Daytime Running Lights
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8WXB	HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position
8WXC	BRAKE WARNING INDICATOR Light and Audible Alarm; Parking Brake/Motion Warning System for Engaged Parking Brake
8XDX	BK WARN IND,PARK BK NOT SET , Visual and Audible Alarm; Active Upon Ignition Off and Parking Brake Not Set, Reminder to Set Parking Brake
9AAH	LOGOS EXTERIOR, ENGINE Badge Shipped Loose
9WAB	HOOD TILT ASSIST {EASY TILT} Mechanical
9WAY	FRONT END Tilting, Fiberglass, with Three Piece Construction

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
	<u>Includes</u> : AIR INTAKE SYSTEM Integrated Pre-Cleaning System to Enhance Air Filter Life : GRILLE Removable; Fiberglass Painted Hood Color : SPLASH SHIELD Integral with Front End Assembly
10020	CHASSIS PAINT Full Chassis
10072	PAINT SCHEMATIC, PT-1 Two Tone, Design 272.
10661	PAINT, NON-REFLECTING Non-Reflecting Paint
10788	PAINT TYPE Urethane, One or Two Colors, Other than Imron or International.
10947	KEYS - ALL ALIKE Fleet, Ignition Only
10AA Y	OVER THE AIR PROGRAMMING {Navistar} for Cummins Engines
10ABJ	SURCHARGE, FRONT AXLE for Meritor Front Axles
10WBA	KEYS - ALL ALIKE, ID Z-250
10XAK	PROMOTIONAL PACKAGE 7 Year Unlimited Miles/km Warranty, Limited Time Program for Allison 2000 Series Transmission on School and Commercial Buses (Supplied directly through Allison)
11001	CLUTCH Omit Item (Clutch & Control)
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12890	BLOCK HEATER, ENGINE {Phillips} 120V/1000W <u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted in Center Through Front Bumper
12EJJ	ENGINE, DIESEL {Cummins B6.7 220} EPA 2017, 220HP @ 2400 RPM, 520 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 220 Peak HP (Max), School Bus Only <u>Includes</u> : FUEL FILTER Included with Cummins B6.7 Engines Engine Mounted : FUEL/WATER SEPARATOR Fuel/Water Separator; Heated; with Water-in-Fuel Sensor. Engine Mounted
12TSY	FAN DRIVE {Borg-Warner SA85} Viscous Type, Screw On <u>Includes</u> : FAN Nylon
12UGN	THROTTLE, HAND CONTROL Electronic <u>Notes</u> : Cruise Control Switches Mounted on Steering Wheel are Non-Illuminated.
12UYE	RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 717 SqIn Louvered, with 313 SqIn Charge Air Cooler. with In-Tank Transmission Cooler <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12VBR	AIR CLEANER with Service Protection Element <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VGY	FEDERAL EMISSIONS {Cummins B6.7} EPA, OBD and GHG Certified for Calendar Year 2019
12VWH	GOVERNOR Electronic Road Speed Type; for Electronic Engines and Bus Models; with 55 MPH Default

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

Code	Description
12WZD	EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies with California Clean Air Regulations
13ARV	TRANSMISSION, AUTOMATIC {Allison 2500 PTS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, Less PTO Provision, Less Retarder, with 33,000-lb GVW and GCW Max, School Bus <u>Includes</u> : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan
13WLN	TRANSMISSION OIL Synthetic; 20 thru 28 Pints
13XBA	SHIFT CONTROL PARAMETERS Allison 1000 or 2000 Series Transmissions, 5th Generation Controls, with DynActive and Dynamic Shift Sensing (FuelSense 2.0 Basic)
14AGG	AXLE, REAR, SINGLE {Dana Spicer 21060S} Single Reduction, 21,000-lb Capacity, 190 Wheel Ends . Gear Ratio: 5.57 <u>Includes</u> : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires. : When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and Performance
14SBV	SUSPENSION, REAR, SINGLE 21,000-lb Capacity, Vari-Rate Springs
14WAP	SHOCK ABSORBERS, REAR (2)
15SZM	FUEL TANK Top Draw, Steel, Rectangular, 65 US Gal (246L), Includes Protective Cage, for Low Profile Fuel Filler Assembly and Vent Hosing, Mounted Between Frame Rails and Behind Rear Axle
15WDT	DEF TANK 12 US Gal (45L) Capacity, Frame Mounted Outside Right Rail, Behind 0 Bow
16010	COWL Flat Back
16HBA	GAUGE CLUSTER English with English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER (5) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16HLJ	GAUGE, DEF FLUID LEVEL
27DUW	WHEELS, FRONT {Accuride 51408} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs
28DUW	WHEELS, REAR {Accuride 51408} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs
47AGJ	BODY, BUS Conventional; 78" Headroom, 33'5" Body Length, +9 Section Front and Rear, 72 Passenger, 276 WB
47AJC	BODY TAG, METAL Capacity to Include the Total Number of Passengers
47APR	HEADLINER, BODY Conventional; 25'11"-34'11" Body Length, Perforated Full Length with Sound Insulation Full Length
47APX	FASTENERS, HEADLINER Screws

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
47ARH	BOWS, ROOF 14 ga., One Piece Construction <u>Includes</u> : BOWS, ROOF Positioned Floor Line to Floor Line, Threaded Through Roof Strainers and Drip Rail
47ARP	LIGHT BARS Plastic
47ASG	SKIRT, BODY for Conventional, 14 1/2", 16ga <u>Includes</u> : SKIRT, BODY Extra Smooth Steel Supported by Floor Gussets
47AUR	TIE DOWNS, BODY Grade 8 Bolts, Every Body Section <u>Includes</u> : TIE DOWNS, BODY with Formed Tab that Fits into Floor Structure to Prevent Turning
47AXT	RUB RAILS, BODY (4) Conventional; Steel, 31'2", 31'11", 32'8", 33'5", 34'2", 34'11", Body Length, Includes Snow Rail <u>Includes</u> : RUB RAILS Full Length, Primer Coated (Both Sides), Attached to Body without Cuts or Splices
47AYB	BODY, REAR Includes Emergency Door <u>Includes</u> : DOOR, REAR EMERGENCY with Concealed Hinges : HEADER BUMPER Padded, Mounted Over Rear Door; Upholstered to Match Passenger Seat Color
47AZE	SIDE SHEET, BODY, EXTERIOR Conventional, 16ga., Smooth, 31'2", 31'11", 32'8", 33'5", 34'2", 34'11", Body Length
47AZL	FLOOR, BODY with Wheel Wells
47BAK	BUMPER, REAR Painted, 12" High, 3/16" Thick
47BAR	SUPPORTS, REAR BUMPER Bolted to Frame
47BAW	TOW HOOK, LEFT REAR (01)
47BAX	TOW HOOK, RIGHT REAR (01)
47BBH	LINING, SIDE INTERIOR, LOWER Embossed Steel, Clear Coated
47BBZ	SEALER Extra; Sidewall to Floor, In Wheel Pocket Area, and Rear Wall to Floor
47BJC	LETTERING, EXTERIOR "NO STANDEES" Aft Entrance Door Below Window Line
47BKK	LETTERS, SCHOOL BUS FRONT/REAR Decal; "SCHOOL BUS"; with 8" Black Reflective Letters, 3M Fluorescent Diamond Grade, Yellow On Front and Rear Cap
47BLD	STEP, FRONT ENTRANCE DOOR 27 1/4" Depth; 14ga Steel, Formed Treads, Naviflex Finish
47DAE	FASTENERS, REAR DOOR Lag Screws, Rear Door To Body
47DAJ	COVER, REAR DOOR INSIDE HANDLE Partial Coverage
47DDE	HANDLE, ASSIST, ENTRANCE DOOR Outside Entrance
47DDH	HOLD BACK, REAR DOOR Stationary, No Cables, with Plastic Cover
47DDU	LATCH, REAR DOOR One Point Slide Bar, Cam Operated, with One Inch Stroke
47DEY	HANDLE, EXTERIOR, REAR Emergency Door; Yellow
47DNB	DOOR, ENTRANCE, FRONT Electric, Outward Opening, with Split Pane Glass <u>Includes</u>

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
	: DOOR, ENTRANCE, FRONT Aluminum Frame with Pin Style Hinges, Ball Bearing Assisted, Interchangeable Top and Bottom Glass Vandal Lock : LOCK, VANDAL, ENTRANCE DOOR With Key Switch
47DNK	SWITCH, LOCATION Steering Wheel; Includes Master Flasher, Flasher On/Off, Red Override, and Door Control <u>Includes</u> : SWITCH, STEERING WHEEL, LIGHT Includes Illuminated Switches
47EBM	HOLD DOWN, BATTERY For (2) Standard Size Batteries
47KDC	MONITOR, POST TRIP INSPECTION {Leave No Student Behind} Accessory Controlled, with Push Button Alarm Disable at Rear of Bus Prompts Driver to Walk to Back of Bus and Push Button in Light Bar to Deactivate System
47LAT	NOISE REDUCTION, ROOF BOW Conventional; Insulation, 31'2", 31'11", 32'8", 33'5", 34'2", 34'11", Body Lengths
47LAU	INSULATION, ROOF AND SIDES 1.50", All Models
47MBA	UNDERCOAT, BODY Fire Resistant, Water Based, TT-C-730 Spec <u>Includes</u> : UNDERCOATING Performed Before and After Mounting on Chassis
47MBS	UNDERCOAT, FENDERS Under Front Fenders
47MJR	LETTERS, DOOR, REAR Decals; "EMERGENCY DOOR", 2" Black Letters Inside and Outside
47MNM	LETTERS, BATTERY COMPARTMENT (01) Decal; "Battery"; 2" Black Letters, Centered on Standard Battery Box
47MNV	ARROW, RR DOOR, OUTSIDE Decal; Black .75" Stroke, Indicating Handle Direction
47MSA	STRIPING, PERIMETER, REAR Emergency Door, Reflexite 1" Yellow Reflective
47MSY	LOGO, ROOF LINE Omit
47MTY	WIRING DIAGRAM Schematic, Electrical <u>Includes</u> : ACCESS PANEL for Wiring Diagram Schematic Located on Body Exterior; Below Driver Window
47MVA	LETTERS, HEADER Decal; "WATCH YOUR STEP", 1" Black, Above Windshield
47MVC	LETTERS, STEPWELL Decal, "WATCH YOUR STEP", 2.5" Black, Behind Door on Step Riser
47MZL	LOGO, REAR BUMPER Omit, IC
47NAB	PAINT COLOR, RUB RAILS 0001 Canyon Black
47NGS	PAINT HOOD TOP 0011 Non-Reflecting Black
47NGW	SEAL, RUB RAILS Top Edge, All Rails
47NJA	PAINT COLOR, BODY EXTERIOR 4421 School Bus Yellow
47NJM	PAINT FLASHER BACKGRD 0001 Canyon Black
47NJS	PAINT COLOR, BUMPER Rear, 0001 Canyon Black
47NKL	PAINT, RUB RAIL Flange to Flange
47NKM	PAINT COLOR, BODY INTERIOR 9384 Spring White
47NKZ	LETTERS, FUEL I.D. Decal; "DIESEL FUEL", 2" Black, Adjacent to Fuel Filler Door

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
47NMG	OPERATING INSTR, REAR Decal, Inside Rear Emergency Door
47NNA	LETTERS, E/E WINDOW, LEFT (01) Decal Set, "EMERGENCY EXIT", Black Inside and Outside
47NNY	LETTERS, E/E WINDOW, RIGHT (01) Decal Set, "EMERGENCY EXIT", Black, Inside and Outside
47NRN	STRIPING, E/E WINDOW, LEFT (01) Perimeter, Reflexite V82, 1" Yellow
47NRT	STRIPING, E/E WINDOW, RIGHT (01) Perimeter, Reflexite V82, 1" Yellow
47PAR	BODY CERTIFICATION TAG Mylar Label, with Actual Tire Load Rating
47PBZ	HANDLE, ASSIST Windshield Side Mounted, Left and Right, Body Color
47PLX	LETTERS, DEF, I.D. Decal; "DEF ONLY", 1" Black, on DEF Filler Door
47SBS	SUB FLOOR, PLYWOOD Conventional; B-C Exterior Grade, Less Sealed Edges, 5/8", 5 Ply, for 31'2",31'11", 32'8",33'5", 34'2", 34'11", Body Length
48ACN	SEAT BELT, DRIVER, COLOR with Blaze Orange Seat Belt Webbing
48ANT	WINDOW, DRIVER Laminated, Clear
48APM	WINDOW, STOPS 5" Opening
48ARS	WINDOW, SASH (18) 27" Sections, 9"x 23" Opening
48AST	WINDOW, SASH +9 SECTIONS (4) 9" x 32 1/4" Opening
48BAG	WINDOW, E/E, LEFT (01) Vertical Hinge
48BJA	COLOR, WINDOW FRAME, PASS Passenger Window, Natural Aluminum Finish
48BKN	WINDOW, E/E, RIGHT (01) Vertical Hinge
48CCJ	WINDOW, PASSENGER, TINT Clear, Tempered Glass
48GHC	HEATER, DRIVER 90,000 BTU, with Defroster and without Rear Heat Duct
	<u>Includes</u> : AIR FILTER : HEATER HOSES Premium : HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps
48PAM	WINDSHIELD 3 Flat Pieces, 73% Light, with Band
48PAV	WHEEL POCKET COVER Plastic, ABS
48PAY	AISLE POSITION Center, for balanced seating
48PBB	FLOOR COVERING, COLOR Black
48PKR	FAN, DEFOG LEFT CENTER 6.50" Diameter, Black, Mounted Left of Center Post, 2-Speed Switch in Panel
48PKS	FAN, DEFOG RIGHT CENTER 6.50" Diameter, Black, Mounted Over Windshield, 15" Right of Centerline, 2-Speed Switch in Panel
48PMC	HEATER, PASS, LT MIDSHIP 1ST 50,000 BTU
	<u>Includes</u> : AIR FILTER
48PMJ	HEATER, PASS, LT REAR 84,500 BTU
	<u>Includes</u> : AIR FILTER
48PMS	HEATER, STEPWELL 50,000 BTU

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
	<u>Includes</u> : AIR FILTER
48PNW	HEATER, WATER PUMP {2 MPU 12} Self Priming, with Plastic Housing
48PPM	HEATER CUT OFF, VALVE Ball, with Butterfly Handle
48PPS	ROOF VENT, FRONT Static
48PUP	FLOOR COVERING, TRIM Omit
48PUT	NUTS, BELT MOUNTING Standard Nuts For Seat Belt Mounting
48PVA	UPHOLSTERY, DRIVER SEAT, STYLE Plain, with Cloth Insert
48PVN	UPHOLSTERY, DRIVER SEAT, COLOR Drivers Seat, Gray
48PWD	UPHOLSTERY, PASS SEATS, COLOR Gray, for Seats, Barriers and Head Bumpers
48PWN	UPHOLSTERY, DRIVER SEAT, TYPE Vinyl, 42 oz.
48PXA	UPHOLSTERY, BARRIER, TYPE (1-2) Vinyl, 42 oz.
48RAE	BARRIER, CRASH, AFT ENTRY DOOR 39", 1 Leg
48RAL	BARRIER, CRASH, AFT DRIVER 39", 1 Leg
48REP	PANEL, MODESTY, AFT OF DRIVER Mounted Under Barrier
48RET	PANEL, MODESTY, AFT ENTR DOOR Mounted Under Barrier
48RGR	HAND RAIL, ENTRANCE DOOR, AFT Stainless Steel, 4", Above Step
48RLX	CUSHION, SEAT 15" Depth
	<u>Includes</u> : WARRANTY Four Years
48RRA	UPHOLSTERY, SEAT, STITCHING Single
	<u>Includes</u> : WARRANTY Two Years
48SBG	UPHOLSTERY, PASS SEATS, TYPE Vinyl, 42 Ounce
48SDV	SEAT,PASS,LT,39",2 LEG (12)
	<u>Notes</u> : BTI Seating System Base Seat. Retrofittable, Contact IC Bus Application Engineering for more information.
48SKN	SEAT,PASS,RT,39",2 LEG (12)
	<u>Notes</u> : BTI Seating System Base Seat. Retrofittable, Contact IC Bus Application Engineering for more information.
48UCP	ROOF HATCH, FRONT {Transpec 1975-028-121-03} with Outside Release, with English Decals
48UCR	ROOF HATCH, REAR {Transpec 1975-028-121-03} with Outside Release, with English Decals
48USV	SEAT BACK, PASSENGER High Back
48UWV	FLOOR COVERING, TYPE Koroseal, One Piece, Vinyl, All Body Lengths, Black
48UZH	SEAT, DRIVER {National 2000} Static, Mechanical Height Adjust, High Back, with Mechanical Lumbar
48VVR	STEP TREADS {Koroseal} Pebble White Nosing Only, with Non-Metal Backing, used with Formed Treaded Steps
49007	BODY PLAN, APPROVED VARIATION Number 007

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

Code	Description
49ADC	LIGHTS, WARNING (8) Quartz Halogen Beams, 7", 2 Front, 2 Rear, Red and Amber Lights
49AMD	SWITCH, DRIVER PANEL, TYPE Rocker
49AMR	CIRCUIT, PROTECTION Fuse, Electrical System
	<u>Includes</u> : ACCESS PANEL for Body and Chassis Fuses/Circuit Breakers Located on Body Exterior; Below Driver Window
49AMV	ALARM, BACKING {Ecco #850} 112 db
49AMY	SWITCH, REAR DOOR BUZZER for Emergency Door
49ANH	SWITCH, MAGNETIC, DISCONNECT Master, Ignition Operated, All Body Circuits
49APB	LIGHTS, DOME Rectangular Recessed Type, Stagger Mounted in Light Bars
	<u>Includes</u> : WIRING HARNESS Main Body Wiring Harness Accessed by Removing Dome Light
49ARN	LIGHT, STEP Wired to Clearance Lights
49ATU	MONITOR, LIGHT SYSTEM 08 Incandescent Indicator Lights
49ATV	LIGHT, INDIC, WARNING LIGHTS Red and Amber
	<u>Includes</u> : LIGHTS, WARNING Indicator Located in Instrument Cluster
49AWT	SPEAKERS AND WIRING (4) Flush Mounted in Light Bar
49BCN	FLASHER SYSTEM (8) Warning Lights, 8-Lamp System, Electronic Relay Flasher, Non-Sequential Operation, Red Lights Activate with Door Open
49BCR	LIGHT, EXTERIOR, CHECK Automatically Activates Lights for Pre Trip Inspection
49BYC	RADIO, ENTERTAINMENT {Panasonic} AM/FM/CD Stereo, Includes Antenna and Cable, with Public Address System
49BYT	LIGHTS, STOP (2) {Sound Off} and Tail; 7" Round LED, Red
49BYZ	LIGHTS, DIRECTIONAL, REAR (2) {Sound Off} LED, 7" Round Amber LED
49BZG	LIGHTS, BACK UP (2) {Sound Off} LED, 7" Round Clear
49CKT	FUEL FILLER PIPE Low Profile Neck Cap and Vent Hosing, for Use with Right Side Fill for Between the Rail Fuel Tanks, for Above the Floor Fuel Fill, for 25 GPM Fill Rate Only
49DDC	LIGHTS, CLUSTER {Truck Lite 07045A & 07045R} LED; Amber Front and Red Rear
49EGC	MIRROR, INSIDE 6" x 30", Clear Safety Glass, Metal Back, Round Corners
49EGM	MIRROR, CROSS VIEW, EXTERIOR Heated, Black, Rosco
	<u>Includes</u> : MIRROR MOUNT Attached to Body with Metal Backing Plates
49EKR	STOP ARM, FRONT Electric, Metal Blade, 18" Octagon, Double Sided, 1/2" White Border, Engineering Grade, Flashing Red Incandescent Lights
49ENK	VISOR, INTERIOR, LEFT FRONT 6" x 30", Transparent, For Left Windshield
49EUG	KIT, FIRST AID 10 Unit, Connecticut
49EXD	MIRROR, REAR VIEW, EXTERIOR {Rosco} Open View, Black, Heated, Motorized, Non-Detent
49GBV	WINDSHIELD WIPERS (2) Cowl Mounted

Vehicle Specifications
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Code</u>	<u>Description</u>
	<u>Includes</u> : WINDSHIELD WIPERS CONTROL Single Motor, Overlapping Wipe Pattern
49GEM	SAFETY TRIANGLES Warning Reflectors, Mounted on Front of Drivers Barrier 6" Below Top of Modesty Shield
49GGC	FIRE EXTINGUISHER, DRIVER AREA 2 1/2 lb 1A-10B-C
49GHN	REFLECTORS, REAR (2) 3", Red, Adhesive Back
49GHR	REFLECTORS, SIDE, REAR (2) 3", Red, Adhesive Back
49GHV	REFLECTORS, SIDE, FRONT (2) 3", Amber; Adhesive Back, 1 Aft Drivers Window Left, 1 Aft Entrance Door Right
49GHX	REFLECTORS, SIDE, INTERMEDIATE (2) 3" Amber, 1 Each Side, Below The Third Rub Rail From the Top, Adhesive Back
49GKZ	FUEL FILLER DOOR with Non-Locking Latch
49GUK	FENDERS, RUBBER, REAR (2)
49GUX	MUD FLAPS, FRONT WHEELS (2) Rubber
49GVC	MUD FLAPS, REAR WHEELS (2) Rubber
49GWW	WINDSHIELD WASHER Kit; 6 Quart Capacity, Bottle <u>Includes</u> : WINDSHIELD WASHER ELECTRICAL CONNECTIONS Sealed and Locking Type
49GWZ	INSPECTION PLATE Fuel Sending Unit 8" x 8" Aluminum Diamond Tread Mounted Flush with Floor Mat
49JAC	DEF FILLER DOOR with Non-Locking Latch
49JBY	LIGHTS, MARKER, FRONT, REAR {Sound Off} (4) Total, Slim-Line Armored LED, (2) Amber Front and (2) Red Rear
49MZT	INSULATION, FUEL FILLER Rubber Isolator for Fuel Filler when Exhaust are on Same Side
49NGG	LIGHTS, TAIL, LICENSE PLATE (2) {Sound Off} 4" Round LED, Red, Includes Stop & Light Window, Includes Mounting Gasket
49PSY	LIGHTS, DIRECTIONAL, SIDE {Sound Off} (2) Slim-Line LED Armored, Amber, (1) Each Side First Section Aft Entrance Door
49UAH	STATE OF OPERATION Connecticut
49ZNE	LIGHTS, MARKER, SIDE {Sound Off} Slim-Line Armored, LED, Intermediate, Centered; Required for Units 30 Foot or Longer
50NTB	BODY PLAN, NON-SPECIAL NEEDS Conventional; 33' 05" Body Length, +9 Section Front & Rear, 72 Passenger, 276" WB, DX7407A000
7382135415	(2) TIRE, FRONT 11R22.5 Load Range H HSR2 (CONTINENTAL), 498 rev/mile, 75 MPH, All-Position
7382135423	(4) TIRE, REAR 11R22.5 Load Range H HDR2 (CONTINENTAL), 491 rev/mile, 75 MPH, Drive
Services Section:	
40126	WARRANTY Standard for CE, RE, BE School Bus Models, Effective with Vehicles Built March 1, 2017 or Later, CTS-3304H
49GVN	WARRANTY 5-Year, Limited

Financial Summary
2021 INTEGRATED CE S BUS (PB105)

September 05, 2019

<u>Description</u>	(US DOLLAR)	<u>Price</u>
Net Sales Price:		\$77,954.66

PROPOSAL INCLUDES:
72 PASSENGER CAPACITY
CT STATE SPECS
STA COLD WEATHER OPTIONS
DELIVERY CHARGE

THIS PROPOSAL IS FOR A QUANTITY OF 1. IF ADDITIONAL QUANTITIES ARE NEEDED FOR ORDERING PURPOSES, PLEASE NOTE IN THE AREA BELOW.

QUANTITY ORDERED: _____

REQUESTED DELIVERY DATE: _____

DELIVERY LOCATION:

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

ATTACHMENT D-4

VENDOR ESTIMATE FOR YALE UNIVERSITY



PROTERRA

August 18, 2019

Ronald Gitelman, CAFM, MBA, MPA
Senior Fleet Administrator
Yale University
2 Whitney Avenue, Suite 540
New Haven, CT 06510

Subject: Proterra Budgetary Price Proposal for Yale University

Dear Mr. Gitelman:

Proterra Inc (“Proterra”) is pleased to provide this budgetary pricing proposal to Yale University (“Yale”). As the leading innovator in heavy-duty electric transportation, Proterra is excited about the opportunity to provide electric buses to Yale.

Pricing Proposal

Included below is budgetary pricing for our 35’ Catalyst E2 buses and charging equipment. The first line is based on a conventional purchase, and the second line is based on doing a battery service agreement. More details about these vehicles can be found in Exhibit A of this pricing proposal.

Qty	Length	Catalyst Model	Base Price	Total Price
1	35’	E2 (440kWh)	\$739,000	\$739,000
1	35’	E2 (less batteries*)	\$543,000	\$543,000

***Battery Service Agreement** - Proterra has introduced the use of a Battery Service Agreement to lower the upfront cost of a Proterra battery electric bus to be the same as a CNG bus by removing the cost of the batteries and providing the use of batteries over a 12-year period. This financing structure helps Yale purchase more Proterra battery electric buses for less up-front cost and transfers any battery risk from Yale to Proterra. This structure allows savings achieved from operating a Proterra bus to pay for the cost of the battery service agreement payment and protects against the future cost of mid-life replacement batteries.

Qty	Enhanced Battery Warranty**	Base Price
Any	E2 (440kWh)	\$75,000 per bus

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****Enhanced Battery Warranty:** 12 years / Unlimited miles (80% Capacity Guarantee for 12 years)

Qty	Power (kW)	Charger Model	Price	Total Price
1	125	Proterra Universal Plug-In Charger (Depot)	\$66,000	\$66,000
1	-	Installation for Depot Chargers (approximate for budgetary purposes)	\$37,500	\$37,500

Base Vehicle The base pricing offered herein for the Catalyst E2 buses includes the following components / systems:

- Passenger Seating (35'): 29-passenger layout, USSC Gemini seats
 - See Exhibit B for Representative Layout
- ADA Securements: Two (2) 3-point ADA securement systems
- ADA Ramp: 1:4 Ricon
- Doors: Ventura System, Pneumatic
- Destination Signs: Hanover, Amber, Front, Curb Side, and Rear
- Flooring: Altro Transflor Meta
- Tires: Michelin X InCity Energy Z LR L- 315/80R22.5
- Wheels: Brushed Aluminum Wheels
- Operator's Seat: Recaro Ergo Metro PN 8H0.01.591.VV11
- Plug-In Charge Port: Single, Curb-Side SAE J1772 CCS Type 1 Charge Port
- Passenger Windows: Flush Mounted, 50% LT, Grey, 2 Egress Windows
- HVAC: Eberspaecher
- Driver Foot Controls: Non-Adjustable Pedals
- Exterior Finishing: Base Composite Gel-Coat, White
- Overhead Passenger Assists: 6 Grey Nylon Prima Grab Straps
- Stop Request System: Pull Cord
- Roof Hatches: One (1), Opaque

Most of the above standard items can be swapped out with alternative selections subject to cost adjustments, up or down, as appropriate; e.g. Ventura electric doors in lieu of pneumatic doors, etc.

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Customer Configurable Options

The following items are not included in the price as they are highly customized items that often change with each order. Pricing for these items (if selected) will be determined when they are confirmed with Yale.

- Bike Rack
- Surveillance System
- CAD/AVL or ITS System
- Automated People Counters (APCs)
- Farebox (if required)
- WiFi
- Customer Communication Systems

Warranty

The base pricing offered herein includes Proterra's standard warranty terms; which are included below for Yale's review.

- Complete Bus (Bumper to Bumper): 1 year / 50,000 miles
- Energy Storage Systems: 12 years / Unlimited miles (80% Capacity Guarantee for the first 6 years)
- Main Composite Monocoque Structure (Body / Class 1 & 2 Failures): 12 years / 500,000 miles
- Structural Systems: 3 years / 150,000 miles
- Major Components: 2 years / 100,000 miles
 - Propulsion System
 - Brake System
 - Axles
 - Destination Signs
 - Door Systems
 - Defroster
 - Air Compressor
 - Air Dryer
 - ADA Ramp
 - Passenger Seating
 - Passenger Windows

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- A/C Unit & Compressor
- Power Steering Unit
- Proterra Universal Charger: 2 years

Training

The following training is included with the purchase of the bus and charger.

- Operator Training
 - 40 hours of operator training
 - Utilizes a “train-the-trainer” approach to enable customers to provide as much training as required for their operators
 - 50/50 split between classroom and seat-time for the operators
- Bus Maintenance Training
 - 36 hours of vehicle maintenance training.
 - Classroom and hands-on training
- Bus Introduction Training
 - 16 hours of general bus introduction training
 - Meant for supervisors, managers, procurement
- Charger Maintenance Training
 - 24 hours of charger maintenance training
 - Classroom and hands-on training

If Yale desires additional training, it can be purchased for an additional price.

Summary

Proterra is the world's premiere battery-electric transit vehicle provider and we're eager to support Yale with this opportunity. If you would like any additional information, please do not hesitate to ask and we will be happy to provide it for you.

If you have any questions or concerns, please feel free to contact me at (256) 499-5696 or at Dlkenberry@proterra.com.

Sincerely,

Devin Ikenberry
Business Engagement Manager
Proterra Inc

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PROTERRA

Cc: Bill Williams, Commercial Sales Director

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Headquarters
1815 Rollins Road, Burlingame, CA 94010

East Coast Manufacturing
1 Whitlee Court, Greenville, SC 29607

West Coast Manufacturing
383 Cheryl Lane, City of Industry, CA 91789

www.proterra.com



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Exhibit A – 35' Catalyst Spec

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Headquarters
1815 Rollins Road, Burlingame, CA 94010

East Coast Manufacturing
1 Whitlee Court, Greenville, SC 29607

West Coast Manufacturing
383 Cheryl Lane, City of Industry, CA 91789

www.proterra.com

CATALYST® : 35 FOOT BUS

PERFORMANCE SPECIFICATIONS



PROTERRA

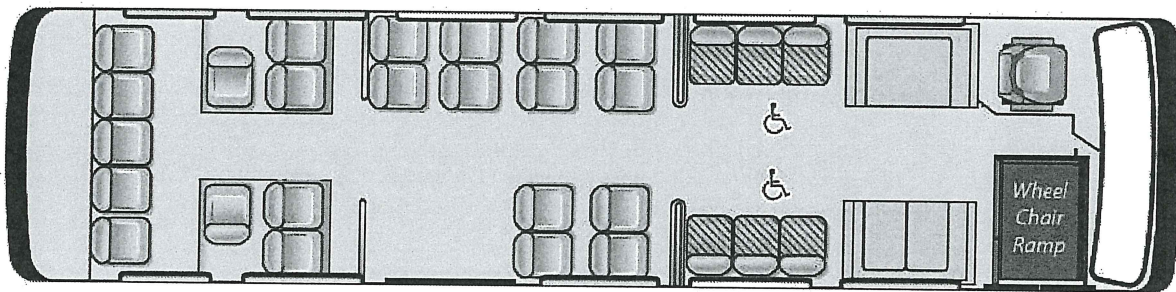
	Description	XR	E2
CATALYST VEHICLE WITH DUOPOWER™ DRIVETRAIN			
Total Energy	kWh	220	440
Operating Efficiency*	kWh/mile	1.46-1.79	1.50-2.16
	MPGe	21.0-25.8	17.4-25.0
Operating Range*	Miles; Usable energy/Operating efficiency	98-121	163-234
Top Speed (Proterra-governed)	mph (per tire rating)	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	5	5
	20 to 50 mph	16	12.3
Gradability (top speed at % grade, at SLW, mph)	5%	54	65
	10%	32	44
	15%	23	31
Max Grade (at SLW)		29%	27%
Horsepower	Peak	338	510
	Continuous	170	338
Motor	Dual independent 190 kW motors	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•
Curb Weight	lbs	26,358	29,658
Max Gross Vehicle Weight Rating	lbs	42,000	42,000
CATALYST VEHICLE WITH PRODRIVE DRIVETRAIN			
Total Energy	kWh	220	440
Operating Efficiency*	kWh/mile	1.55-1.89	1.66-2.32
	MPGe	19.9-24.3	16.3-22.7
Operating Range*	Miles; Usable energy/Operating efficiency	93-114	152-212
Top Speed (Proterra-governed)	mph (per tire rating)	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	6.2	6.4
	20 to 50 mph	21.7	23.5
Gradability (top speed at % grade, at SLW, mph)	5%	48	43
	10%	29	29
	15%	22	21
Max Grade (at SLW)		24%	21%
Horsepower	Peak	335	335
	Continuous	170	240
Motor	Single 250kW permanent magnet drive motor	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•
Curb Weight	lbs	26,558	29,858
Max Gross Vehicle Weight Rating	lbs	42,000	42,000
CHARGING			
Max Plug-in Charge Rate at 200A	kW	72	132
Max Overhead Charge Rate	kW	166	331
Overhead Charging	Miles replenished per 10 minutes **	16	28
	Est. time Empty to Full***	2.7 hrs.	2.7 hrs.
Plug-in Charging	Est. time Empty to Full***	2.8 hrs.	3.2 hrs.
<small>*Operating range and efficiencies approximated from simulations based on UDDS cycle Altoona testing results at SLW, and will vary with route conditions, weather, vehicle configuration and driver behavior. ** ProDrive powertrain efficiencies *** Charge time will vary depending on charger type. Estimated charge time empty to full based on 0-99%</small>			



Exhibit B – Representative Seating Layout

Standard Proterra Specifications:

- USSC Gemini
- 29 seated passengers
- 3pt Q'Straint ADA system
- Minimum 27.5" Hip-to-knee at all seats
- Non-Padded Inserts
- Thermoplastic shells
- Cantilever seating brackets on low floor



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