APPENDIX D-4 Beneficiary Eligible Mitigation Action Certification

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

| Beneficiary State of Iowa | |
|---|---|
| (Any authorized person with a | Act on Behalf of the Beneficiary lowa Department of Transportation delegation of such authority to direct the Trustee delivered to the tion of Authority and Certificate of Incumbency) |
| Action Title: | 2019-2020 Diesel Emission Reduction Act (DERA) Option |
| Beneficiary's Project ID: | EMA 10 |
| Funding Request No. | (sequential) 11 |
| Request Type: (select one or more) | ☐ Reimbursement ☐ Advance ☐ Other (specify): |
| Payment to be made to: (select one or more) | ■ Beneficiary □ Other (specify): |
| Funding Request & Direction (Attachment A) | ■ Attached to this Certification □ To be Provided Separately |
| | SUMMARY |
| | Appendix D-2 item (specify): https://linew.nc.nlm.nih.gov/length-10 (specify and attach DERA Proposal): |
| | equest fits into Beneficiary's Mitigation Plan (5.2.1): Plan states that lowa will use Volkswagen Trust Funds as voluntary state match |
| Overall detail can be found in attach | ation Action Item Including Community and Air Quality Benefits (5.2.2): Iments D, E, and the attached DERA Work Plan. Estimated lifetime benefits are 52.63 short M2.5, 4.412 short tons for HC, 11.88 short tons for CO, and 2864.80 short tons for CO2. |
| Estimate of Anticipated NOx According to EPA's Diesel Emissions C | Reductions (5.2.3): tuantifier, the estimated anticipated NOx reductions from these projects are 52.63 short tons (lifetime) |
| Mitigation Action Funds to E | al Entity Responsible for Reviewing and Auditing Expenditures of Eligible nsure Compliance with Applicable Law (5.2.7.1): nsportation - Planning, Programming, and Modal Bureau |
| Describe how the Beneficiary | will make documentation publicly available (5.2.7.2). |
| The public may access documents pursuant to lower | a Code, Chapter 22 and 761 I.A.C.4. In addition, information will be available on lowa's VW website at www.iowadot.gov/vwsettlement |
| _ | rement to be placed on each NOx source proposed to be mitigated (5.2.8). ent E, the DERA Work Plan, and the 2020 DERA Information Guide. |
| Describe how the Beneficiary Agencies (5.2.9). | complied with subparagraph 4.2.8, related to notice to U.S. Government |

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).

Projects were ranked and awarded based on counties with higher concentrations of mobile and non-point NOx emissions, higher rates of asthma and heart failure, higher rates of poverty, higher rates of young and elderty populations

ATTACHMENTS (CHECK BOX IF ATTACHED)

| 7 | Attachment A | Funding Request and Direction. |
|----------|--------------|--|
| Ø | 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.] |
| 7 | 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: <u>2-17-2021</u>

[NAME]

[TITLE] Director

Iowa Department of Transportation

[LEAD AGENCY]

for

State of Iowa

[BENEFICIARY]

ATTACHMENT A

FUNDING REQUEST AND DIRECTION

(Attachment to Appendix D-4, Beneficiary Eligible Mitigation Action Certification, pursuant to Paragraph 5.2 of the Environmental Mitigation Trust Agreement)

| of Beneficiary State of lo Trustee to make the fo | owa under the | mitigation Trust, [Lead Agency s subaccount no. 122969-022 the dates specified below. | | |
|--|---|---|-------------------------|--|
| | LEAD AGENC | Y INFORMATION | | |
| Beneficiary Name: | State of Iowa | Lead Agency Contact Person: | Scott Marler | |
| Lead Agency Name: | lowa Department of Transportation | Lead Agency Email Address: | Scott.Marler@iowadot.us | |
| Lead Agency Address: | 800 Lincoln Way, Ames, Iowa 50010 | Lead Agency Fax: | | |
| Lead Agency Phone: | 515-239-1105 | Lead Agency TIN: | 46-6004226 | |
| | hority to direct the Truste | oond to Lead Agency or any aut e delivered to the Trustee pursu | | |
| | MITIGATION ACT | TION INFORMATION | | |
| Action Title: | 2019-2020 Diesel Emission Reduction Act (DERA) Opti | Funding Request No: | 11 | |
| Beneficiary's Project ID: | EMA 10 | | | |
| Beneficiary's Project ID: | EMA 10 | | | |

PAYMENTS REQUESTED

(attach additional pages if needed)

| Amount | Requested Date | Payee | Request Type |
|-----------|----------------|-----------------------------------|--------------|
| \$654,616 | 2/8/2021 | lowa Department of Transportation | Advance |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

PAYEE CONTACT AND WIRE INFORMATION

(fill out both tables below for each payee and payment identified in "Payments Requested" table on p. 1; attach additional pages if needed)

PAYEE CONTACT INFORMATION

| Action Title: | 2019-2020 Diesel Emission Reduction Act (DERA) Opti | Beneficiary Project ID: | EMA 10 |
|----------------|---|-------------------------|-------------------------|
| Payee Name: | Iowa Department of Transportation | Payee Contact Person: | Scott Marler |
| Payee Address: | 800 Lincoln Way, Ames, Iowa 50010 | Payee Email Address: | Scott.Marler@iowadot.us |
| Payee Phone: | 515-239-1105 | Payee Fax: | |
| Payee TIN: | 46-6004226 | | |

| Payment Amount | Requested Date | Request Type |
|----------------|----------------|--------------|
| \$654,616 | 2/8/2021 | Advance |

WIRE INFORMATION

| Receiving Bank Name: | Wells Fargo Bank | | |
|---------------------------------|----------------------------|---|---------------|
| Receiving Bank Branch: | San Francisco, CA | | |
| Receiving Bank Address: | | | |
| Bank Swift ID: | | National Routing No. / Bank ABA Number | 121000248 |
| Amount of Wire: | \$654,616 | (Sort Code, BLZ) | |
| Message to Payee: | | | |
| Instructions to Receiving Bank: | | | |
| For Credit to: | Treasurer State of Iowa, A | ccount Number 0000400004 | , Iowa D.O.T. |
| Other Special Instructions: | lowa D.O.T. | | |

[Signature Block]

STURT ANDERSAN
2-17-2

ATTACHMENT B

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

MANAGEMENT PLAN SCHEDULE AND MILESTONES

| MILESTONE | COMPLETION DATE - 2019 | COMPLETION DATE - 2020 |
|--|------------------------|------------------------|
| Draft DERA Work Plan Due | June 4, 2019 | June 4, 2020 |
| Final Approved DERA Work Plan and Budget Submittal | June 25, 2019 | June 25, 2020 |
| Provide Notice of Availability of DERA funds | September 28, 2019 | September 28, 2020 |
| Project Period for FY 2018 DERA Begins | October 1, 2019 | October 1, 2020 |
| Quarterly Report Due | October 30, 2019 | October 30, 2020 |
| Participant Submits Application | November 9, 2019 | November 9, 2020 |
| Application Evaluation, Scoring and Ranking | December 20, 2019 | December 20, 2020 |
| Provide Written Approval of Participant Proposal | January 2, 2020 | January 2, 2021 |
| Quarterly Report Due | January 30, 2020 | January 30, 2021 |
| Prepare Agreements for Participants | February 10, 2020 | February 10, 2021 |
| Participant Enters into Contracts, Purchase Orders, etc. | February 14, 2020 | February 14, 2021 |
| Public Notification of Awarded Projects | March 15, 2020 | March 15, 2021 |
| Project Installation - Start | April 1, 2020 | April 1, 2021 |
| Quarterly Report Due | April 30, 2020 | April 30, 2021 |
| Quarterly Report Due | July 30, 2020 | July 30, 2021 |
| Monitoring and Oversight of Project Implementation | August 30, 2020 | August 30, 2021 |
| Project Installation - Complete | August 30, 2020 | August 30, 2021 |
| Participants provide detailed invoices for all claimed project costs, documentaion for emission reduction estimates, required certification documents to support reimbursement | August 30, 2020 | August 30, 2021 |
| Final Report Due/EPA Closeout | December 31, 2020 | December 31, 2021 |

| | | /IENT B - 201 | | | |
|--|--|--------------------------------|------------------------------|------------------------------|---|
| ELIGIBLE MITIGATION ACTION MAN | | NCLUDING DETA URES TIMELINE | ILED BUDGET | AND IMPLEMEN | TATION AND |
| | | UDGET | | | |
| | <u>B</u> | DOGET | | | T |
| Project Description | Project Participant | Project Subtotal | Amount Funded by Trust | Amount Funded by EPA | Amount Funded by Project Participant |
| | | | | | |
| Bus Replacement | Allamkee CSD | \$214,000.00 | \$29,772.00 | \$45,128.00 | \$139,100. |
| Bus Replacement | Bellevue CSD | \$100,000.00 | \$10,172.00 | \$14,828.00 | \$75,000. |
| Bus Replacement | Cardinal CSD | \$90,000.00 | \$9,172.00 | \$13,328.00 | \$67,500. |
| Bus Replacement | Center-Point Urbana CSD | \$97,000.00 | \$9,872.00 | \$14,378.00 | \$72,750. |
| Single-Axle Dump Truck Replacement | Henry County | \$135,000.00 | \$13,672.00 | \$20,078.00 | \$101,250. |
| Terminal Truck Replacement | HyVee | \$329,498.00 | \$59,482.60 | \$88,791.40 | \$181,224. |
| Bus Replacement | Independence CSD | \$110,247.00 | \$15,607.40 | \$22,978.60 | \$71,661. |
| Bus Replacement | Interstate 35 CSD | \$375,000.00 | \$35,173.00 | \$52,327.00 | \$287,500. |
| Forklift Replacement | Iowa Steel and Wire Company, Inc. | \$80,500.00 | \$14,663.00 | \$21,562.00 | \$44,275. |
| Replace two Dump Trucks | Lee County | \$340,000.00 | \$47,773.00 | \$71,227.00 | \$221,000. |
| Replacement of Class 8 & Class 6-7 Truck | Lime Rock Springs DBA Pepsi Bottling Co. | \$125,176.00 | \$22,672.00 | \$33,578.00 | \$68,926. |
| Bus Replacement | North Iowa CSD | \$97,000.00 | \$15,573.00 | \$22,927.00 | \$58,500.0 |
| Bus Replacement | Northwood Kensett CSD | \$115,000.00 | \$16,273.00 | \$23,977.00 | \$74,750. |
| Bus Replacement | Western Dubuque CSD | \$190,000.00 | \$19,173.00 | \$28,327.00 | \$142,500.0 |
| | Totals Percentage | \$2,398,421.00 100.0% | \$319,050.00 13.3% | \$473,435.00 19.7% | \$1,605,936.0 67.0 |
| | | | | | |

ATTACHMENT B - 2020

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

| | 1 7 | | ľ | | |
|---------------------------------------|---|---------------------------------------|-------------------------------------|-------------------------------------|---|
| | <u>B</u> L | JDGET | | | |
| Project Description | Project Participant | Project Subtotal | Amount Funded by Trust | Amount Funded by EPA | Amount Funded by Project Participant |
| Vehicle Replacement - Truck (Class 8) | HyVee | \$334,418.00 | \$60,257.20 | \$90,230.80 | \$183,930.00 |
| Vehicle Replacement - Forklift (4) | Iowa Steel & Wire Company | \$245,424.00 | \$44,237.00 | \$66,203.00 | \$134,984.00 |
| Vehicle Replacement - Truck (Class 8) | Keokuk County | \$400,000.00 | \$28,062.00 | \$41,938.00 | \$330,000.00 |
| Vehicle Replacement - Truck (Class 7) | Lime Spring/Pepsi- Cola | \$104,946.00 | \$10,555.40 | \$15,680.60 | \$78,710.00 |
| Vehicle Replacement - Truck (Class 8) | Mahaska County Secondary Roads Dept | \$175,000.00 | \$17,562.00 | \$26,188.00 | \$131,250.00 |
| Repower - Tug | Sunflower Enterprises 1 | \$312,567.00 | \$50,071.80 | \$74,955.20 | \$187,540.00 |
| Repower - Tug | Sunflower Enterprises 2 Totals | \$779,747.00 \$2,352,102.00 | \$124,820.60 \$335,566.00 | \$187,078.40 \$502,274.00 | \$467,848.00 \$1,514,262.0 0 |
| | Percentage | 100.0% | 14.3% | 21.4% | 64.4% |

ATTACHMENT B

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

PROJECTED TRUST ALLOCATIONS

| | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1. Anticipated Annual Project Funding Request to be paid through the Trust | \$300,000.00 | \$300,000.00 | \$3,150,000.00 | \$1,478,072.00 | \$4,611,830.00 |
| 2. Anticipated Annual Cost Share | \$1,205,319.39 | \$1,297,289.66 | \$11,006,348.30 | \$4,280,071.00 | \$12,440,093.00 |
| 3. Anticipated Total Project Funding by Year (line 1 plus line 2) | \$1,505,319.39 | \$1,597,289.66 | \$14,156,348.30 | \$5,758,143.00 | \$17,051,923.00 |
| Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation | \$0.00 | \$300,000.00 | \$600,000.00 | \$5,024,207.00 | \$9,185,286.00 |
| 5. Current Beneficiary Project Funding to be paid through the Trust (line 1) | \$300,000.00 | \$300,000.00 | \$3,150,000.00 | \$1,478,072.00 | \$4,611,830.00 |
| Total Funding Allocated to for Beneficiary, inclusive of Current Action by Year (line 4 plus line 5) | \$300,000.00 | \$600,000.00 | \$3,750,000.00 | \$6,502,279.00 | \$13,797,116.00 |
| 7. Beneficiary Share of Estimated Funds Remaining in Trust | \$21,201,737.70 | \$20,901,737.70 | \$20,601,737.70 | \$17,451,737.70 | \$15,973,665.70 |
| 8. Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (line 7 minus line 5) | \$20,901,737.70 | \$20,601,737.70 | \$17,451,737.70 | \$15,973,665.70 | \$11,361,835.70 |

ATTACHMENT C

DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION

Consistent with 5.2.11 of the *Environmental Mitigation Trust Agreement for State Beneficiaries* (Trust), Beneficiaries must submit with their Appendix D-4 request for Eligible Mitigation Action funding a detailed plan for reporting on Eligible Mitigation Action implementation. The Iowa Department of Transportation (DOT) intends to achieve the Beneficiary Reporting Obligations as outlined with 5.3 of the Trust.

The Iowa DOT is devoted to carrying out the reporting requirements of the Trust, according to 5.3, Beneficiary Reporting Obligations, as described below:

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 of implementing each Eligible Mitigation Action during the six-month period leading up 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 Trusts public-facing website upon receipt.

Furthermore, on top of the semiannual reporting to the Trustee, the lowa DOT will be issuing quarterly and final reports to the EPA during the project period, as required by the DERA FY 19-20 State Program Programmatic Terms and Conditions of Iowa DOT's U.S. EPA Assistance Amendment. The following is an excerpt from that amendment:

C. Quarterly Reporting and Environmental Results

Quarterly progress reports will be required. Quarterly reports are considered project status reports and will address the progress made achieving the work plan goals. In general, quarterly reports will include summary information on technical progress and expenditures, and planned activities for next quarter. A template for the quarterly report will be available at www.epa.gov/cleandiesel/clean-diesel-state-allocations. Quarterly reports are due according to the following schedule. If a due date falls on a weekend or holiday, the report will be due on the next business day.

April 1 – June 30 Reporting Period: report due date July 30 July 1 – September 30 Reporting Period: report due date October 30 October 1 – December 31 Reporting Period: report due date January 30

If a project start date falls within a defined Reporting Period, the recipient must report for that period by the given due date. This quarterly reporting schedule shall be repeated for the duration of the award agreement.

D. Final Report:

The final project report will include all categories of information required for quarterly reporting, including a final, detailed fleet description. The final project report will also include a narrative summary of the project or activity, project results (outputs and outcomes) including final emissions benefit calculations, and the successes and lessons learned for the entire project. To the extent possible, final emission benefit calculations should be based on the actual number and type of technologies, vehicles, equipment and engines implemented under the award and actual vehicle miles traveled, idling and/or operating hours, and fuel use. If actual vehicle miles traveled, idling and/or operating hours, and fuel use are not available, the final report will include a detailed explanation of how these values are derived, as well as any assumptions or default values used, for the purposes of emissions benefit calculations. The final report will also detail the methodologies used for the emission benefit calculation.

For projects involving vehicle/engine/equipment replacement the recipient must provide in the final report: 1) Evidence that the replacement activity is an "early replacement," and would not have occurred through normal attrition/fleet turnover (i.e. without the financial assistance provided by EPA) within three years of the project period start date. Supporting evidence can include verification that the vehicles or equipment being replaced have useful life left and fleet characterization showing fleet age ranges and average turnover rates per the vehicle or fleet owner's budget plan, operating plan, standard procedures, or retirement schedule; 2) Evidence of appropriate scrappage (see E.9.4 below); and 3) Specification of the model years and the emission standard levels for PM and NOx, for both the engine being replaced and the new engine.

For projects that take place in an area affected by, or includes vehicles, engines or equipment affected by federal law mandating emissions reductions, the recipient must provide in the final report evidence that emission reductions funded with EPA funds were implemented prior to the effective date of the mandate and/or are in excess of (above and beyond) those required by the applicable mandate.

The final report shall be submitted to the EPA Project Officer within 90 days after the project period end date or termination of the assistance agreement. A template for the final report will be available at www.epa.gov/cleandiesel/clean-diesel-state-allocations.

ATTACHMENT D

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

Consistent with 5.2.6 of the *Environmental Mitigation Trust Agreement for State Beneficiaries* (Trust), Beneficiaries must submit for each proposed expenditure exceeding \$25,000, detailed cost estimates from selected or potential vendors.

The Iowa DOT is devoted to carrying out the reporting requirements of the Trust, according to 5.2.6, as detailed in the following cost estimates:

- 1. Replacement of one 2002 diesel school bus with one Low NOx school bus (page 14) *;
- 2. Replacement of one 2003 diesel school bus with one diesel school bus (page 15) *;
- 3. Replacement of one 2005 diesel school bus with one diesel school bus (page 16) *;
- 4. Replacement of one 2007 diesel school bus with one diesel school bus (page 17) *;
- 5. Replacement of one 2004 diesel dump truck with one diesel dump truck (page 18) **;
- 6. Replacement of one 2007 diesel terminal tractor with one all-electric terminal tractor (page 19) *.
- 7. Replacement of one 2006 diesel school bus with one Low NOx school bus (page 20) *;
- 8. Replacement of one 2004 diesel school bus with one Low NOx school bus (page 21) **;
- 9. Replacement of one 2006 diesel forklift with one all-electric forklift (page 22) *;
- 10. Replacement of one 2000 & 2005 diesel dump trucks with two Low NOx dump trucks (page 23) **.
- 11. Replacement of one 1997 & 2000 diesel combination trucks with two diesel combination trucks (page 24) *;
- 12. Replacement of one 2000 diesel school bus with one Low NOx school bus (page 25) *;
- 13. Replacement of one 2000 diesel school bus with one Low NOx school bus (page 26) *;
- 14. Replacement of one 2005 & 2006 diesel school buses with two diesel school buses (page 27) *;
- 15. Replacement of one 2006 diesel terminal truck with one all-electric terminal truck (page 28) **;
- 16. Replacement of one 2006 & three 2008 diesel forklifts with four all-electric forklifts (page 29)
 **:
- 17. Replacement of one 1997 diesel dump truck with one Low NOx dump truck (page 30) **;
- 18. Replacement of one 1999 diesel single axle truck with one diesel single axle truck (page 31) **;
- 19. Replacement of one 1997 diesel dump truck with one diesel dump truck (page 32) **;
- 20. Repower of two 1974 auxiliary diesel engines with two diesel auxiliary engines (page 33) **;
- 21. Repower of two 1978 auxiliary diesel engines & two 1980 propulsion engines with two diesel auxiliary engines & two diesel propulsion engines (page 34) **;

^{*}Purchase Order

^{**} Cost Estimates

| 3 ALLAM OT SCHOO L O 1059 D WAUKO | AKEE COMMUNITY L DISTRICT THIRD AV. N.W. N, IA 568-4589 | SALES INVOICE 52172 Axable Tax ID: Salesman: (| F SCHOOL BUS O 4537 TEXAS M WATERLOO, I | A 50702 : JMA Tax: 00001 |
|--|---|--|---|--|
| 11625 F | S O Gerial # '514352\$\$ '514353\$₽₽ | 2021 BB BE | | |
| Description PAYMENT DUE ON | Associatio | OF PAYM | Date S Tax N - | Amount 213,522.00 213,522.00 |
| Base Price 213,522.00 | | U M M A R Y Trade-In .00 | Payoff .00 Additions State Tax County Tax .ocal Tax | . Make place from their article finds their place past made place down toward even |

Truck Center Companies



Bellevue Community School District

Sold To:

Acknowledged







Invoice:

Date:

MR1928

10/22/20

1208 31st Avenue Council Bluffs, IA 51501 712-366-6440

Salesman: Dale Mohr Address: 1601 State Street Phone: 563-872-4001 City, State, Zip: Bellevue, Iowa, 52031 tommeyer@bellevue.k12.ia.us Contact Name: Tom Meyer Email: DESCRIPTION **AMOUNT** Purchase Stock#MR1928 (1) New 2021 Thomas Built Saf-T-Liner C2 65 Passenger Vin#4UZABRFC5MCMR1928 93,248.00 PAID 93,248.00 **Total Sale Price:** CCT 2 2 2020 All Extended Warranty Rejected Extended Warranty Accepted, as defined below: Signed by: Truck Center Companies Bellevue Community School District Purchaser: Receipt of Invoice Dale Mohr

Thank you for your business.

HOGLUND BUS CO., INC.

823 S. 19th Avenue Marshalltown, IA 50158

phone: (641) 752-4733 fax: (641) 752-4547

Invoice No. 1930

Date: 3-Jun-2020

| | | | | INVOICE | |
|----------------|------------------------------------|----------|---|--|---|
| CUSTO | MER | <u> </u> | | | |
| Name | Cardinal Community School District | و | *************************************** | 9 (16) to (\$ 4 \$ \$ 1.0 x \$) \$ 1 ^{8,000} |) |
| Address | 4045 Ashland Road | = | | | |
| City/State/Zip | Eldon, IA 52554 | S | | |) |

| Our Order# | P.O.# | TERMS | SALE S RE P | . FOB |
|------------|-------|------------|--------------------|-------|
| 267291 | | on receipt | Danny Thede | |

| Qty | Description | Unit Price | TOTAL |
|--|--|--|-------------|
| 1 | New 2020 77 Pass IC CE School Bus VIN# 4DRBUC8N LB285614 | | \$91,500.00 |
| | Winterfront Chains on spot Installed | The state of the s | |
| | | | |
| Primary and Address. | Pelivered 2 July 2020 | | |
| | | | |
| CONTRACTOR OFFICE OFFIC | | | |
| | Tax, title & license are not included. | | |
| | Customer responsible for titling & registration of vehicle(s) | | |
| | Estimated Delivery Date: July 2020 Please pay on or before this date. Thank you | | |
| | | | |

TOTAL \$91,500.00

Any warranties on the products sold hereby are those of the manufacturer. As between this retail seller and buyer, the product is to be sold "AS IS" and the entire risk as to the quality and performance of the product is with the buyer. The seller expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose, and the seller neither assumes nor authorizes any other person to assume for it any liability in connection with sale of said products. This disclaimer by this seller in no way affects the terms of the manufacturer's warranty. The buyer acknowledges being so informed prior to the sale.

INVOICE



School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702

(319) 296-1363 https://www.sbsales.com

Invoice: 01S1022 Invoice Date: 08/12/2020 Deal/Packet: 1053/1 Branch: School Bus

Department: New

Bill-To:

CENTER POINT - URBANA COMMUNITY SCHOOL DIST. P.O. BOX 296 **CENTER POINT, IA 52213**

Ship-To:

CENTER POINT - URBANA 613 SUMMIT ST. CENTER POINT, IA 52213

C0550 ID:

Ph: (319) 849-1102 P/O:

Salesperson: Dwight Houseal

Price:

\$100,929.00

+ SOLD UNIT(S)

Stock Number: 11669

VIN: 1BAKJCEA1MF378382

2021 Year:

Make: BB

Body #: F516967

Model: BBCV3507

Engine Manufacturer: Ford

Total Sold Unit(s):

\$100,929.00

Total FET:

\$0.00

Total:

\$100,929.00

Net:

\$100,929.00

Balance Due:

\$100,929.00

<u>Terms</u>

Due: 08/12/2020

Remit Balance Due To:

School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702

Comments:

Payment due on delivery.

| *** | Name: | Henry County Road Depa | rtmen | t | | | |
|-------------------|---|--|----------|------------------------|----------------------------|--------------------------------------|----------------------|
| Project Category: | Vehicle and Equipment F (other than Drayage) | - | | | | | |
| | Required Match %: | 75% | | 1 | | | e very construction |
| ltem# | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
| 1 | Single axle diesel dump truck | Purchase from Vendor (no installation) | 1 | \$135,000.00 | \$135,000.00 | \$101,250.00 | \$33,750.00 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| | | Tot | al Proje | ct Cost Estimate | \$135,000.00 | \$101,250.00 | \$33,750.00 |



5710 NW 41st Street Riverside, MO 64150

Invoice

| Date | Invoice # |
|----------|-----------|
| 4/6/2020 | 1006 |

Bill To Hy-Vee 1010 Riverview Dr. Cherokee, IA 51012 Ship To

Hy-Vee
1010 Riverview Dr.
Cherokee, IA 51012
Attn: Darrell Short

P.O. No.

Terms

Per Order Terms

| Description | Qty | U/M | Rate | Amount |
|--|--------|-------|------------|-------------|
| T-Series Electric Terminal Truck, Extended Duty - N | 1 | ea | 284,950.00 | 284,950.00T |
| Configuration: On-Road Vehicle | 1 | ea | 0.00 | T00,0 |
| Configuration: Offboard Charging, Fast Charging | 1 | ea | 0.00 | 0.00T |
| Configuration: 18 MPH/Higher Torque Axle | 1 | ea. | 0.00 | T00.0 |
| Standard Orange EV Warranty | 1 | | 0.00 | 0.00 |
| Optional Equipment: Air Conditioning System | 1 | ea: | 7,500.00 | 7,500.00T |
| Optional Equipment: Trailer Stops | 1 | pr | 500.00 | |
| Optional Equipment: Driver Actuated Rear Axle Differential Lock | 1 | ea | 1,000.00 | T00.000,1 |
| Optional Paint Color: Cab & Interior- White with Safety Orange Decking and Grabhandles | 1 | ea | 0.00 | T00.0 |
| Optional Equipment: 3 Point Orange Seat Belt | 1 | ea | 250.00 | 250.00T |
| Optional Equipment: Winter Package - Addl Ceramicheaters. Prem Hyd Fluid | i | ea | | T00.0 |
| Optional Equipment: Frame Extenders | i | pr | 1.600.00 | 1,600.00T |
| Optional Equipment. Continuous Weld | 1 | ea | 500.00 | 500.00T |
| Optional Equipment: Committees was | î | èя | 0.00 | 0.00T |
| Optional Lighting Equipment: Always On Lighting (beacon, marker, and | Ĩ | ea. | 100.00 | 100.00T |
| headlights) | | | | |
| Optional Equipment: Trailer Electrical Cable | 1 | ea | 0.00 | 0.00T |
| Optional Service: Estimated Transport (waived per agreement per WCM) | 1 | ев | 0.00 | 0.00 |
| Cheroker. Transportation behicle de Adagados 460000 | 3,42.6 | etro- | | |

| Initial payment of \$74,100.00 due at order. Remainder due within 7 days of acceptance. | Subtotal | USD 296,400.00 |
|---|------------------|----------------|
| | Sales Tax (7.0%) | USD 20,748.00 |
| | Total | USD 317,148.00 |
| | Payments/Credits | USD 0.00 |
| | Balance Due | USD 317,148.00 |

INVOICE



School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702 (319) 296-1363 https://www.sbsales.com

Invoice: 01S1028 Invoice Date: 09/10/2020 Deal/Packet: 1081/1 Branch: School Bus Department: Used

Bill-To:

INDEPENDENCE COMM. SCHOOL 1812 MUSTANG WAY DRIVE ATTN: KIM CHESMORE INDEPENDENCE, IA 50644

Ship-To:

INDEPENDENCE COMM. SCHOOL 1812 MUSTANG WAY DRIVE INDEPENDENCE, IA 50644

ID: 10050 Ph (319) 334-7435 P/O: Salesperson: Jonathan Andrews

+ SOLD UNIT(S)

Stock Number: UB3712

VIN: 1BAKGCBA9JF341353

Year: 2018

Make: BB

Body #: F479962

Model: BBCV3303 Engine Manufacturer: Ford

Total Sold Unit(s): \$64,200.00

Price:

Total FET:

\$0.00

\$64,200.00

Total:

\$64,200.00

Net:

\$64,200.00

Balance Due:

\$64,200.00

<u>Terms</u>

Due: 09/10/2020

Remit Balance Due To:

School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702

Comments:

Payment due on delivery.

PAID SEP 2.1 2020

| | 100 ANOVALISADA | Interstate 35 Community Vehicle and Equipment F (other than Drayage) | | | | | |
|--------|---|--|-----------|------------------------|----------------------------|--------------------------------------|-------------------------|
| | Required Match %: | | | - | | i . | Estimated DERA Share |
| Item # | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | |
| | 2020 Bluebird Propane Powered School Bus | Purchase from Vendor (no installation) | 1 | \$125,000 | \$125,000 | \$81,250 | \$43,750 |
| 2 | 2020 IHC Propane Powered School Bus | Purchase from Vendor (no installation) | 1 | \$125,000 | \$125,000 | \$81,250 | \$43,750 |
| 3 | | To | tal Proje | ct Cost Estimate | \$250,000 | \$162,500 | \$87,500 |



MATERIAL HANDLING DIVISION

Date 7/31/20 EQUIR INVOICE EB00275

3890 State Street Bettendorf, IA 52722

(563) 359-0315 www.HODGECOMPANY.com

SOLD TO
10150 10WA STEEL & WIR

IOWA STEEL & WIRE 1500 W VANBUREN ST CENTERVILLE, IA 52544

Sold By: PURCEL PO #: BILL ZINTZ

SHIP TO IOWA STEEL & WIRE 1500 W VANBUREN ST

CENTERVILLE, IA 52544

EQUIP INVOICE

| Ship | ₽ÿ: | Tax #: M? | NUFACTURING | 20:28:3 | \$ 6 | |
|------|---------------------|---|--|------------------|-------------|----------|
| Tax | D Q | ty Description | a diana dalah dala | * | Price | Amount |
| | roup: QUIP 0* | 01 SALE Z00596 LINDE SER#:H2X388X00592 | E45P | FORKLIFT | | 63930.00 |
| 0000 | 0* | ZB0306 HAWKER SER#:PL105201011 | 40-125F-11 | BATTERY | | 12510.00 |
| 0000 | 0* | ZC0221 HAWKER SER#:SF344414 | LPM3-80F-180Y | CHARGER | | 6170.00 |
| | | | * * | TOTAL FOULP SALE | 2 | 82610.00 |

2020 LINDE MODEL E45P/600H S/N# H2X388X00592 9,500# CAPACITY, 80 VOLT ELECTRIC, PNEUMATIC TIRE, 161.5" SIMPLE MAST W/ HAWKER 40-125F-11 POWERLINE BATTERY WITH WATERING SYSTEM AND LEVEL LITE FACTORY INSTALLED AND HAWKER LPM3-80F-180Y LIFEPLUS MOD-3 HF CHARGER.

THANK YOU!

NOTE: EQUIPMENT TERMS - DUE UPON RECEIPT OF INVOICE.

Invoice due and payable in full upon receipt. Accounts past due may be subject to a FINANCE CHARGE of 1 1/2% per month which is an (18% ANNUAL PERCENTAGE RATE) or a minimum finance charge of \$1.00.

** SUBTOTAL

82610.00

Charge Sale

PAY THIS

•

AMOUNT

\$82610.00

Phone: (800)325-5118

| | Name: Lee County Road Department | | | | | | |
|--------|---|--|-----------------------------|------------------------|----------------------------|--------------------------------------|-------------------------|
| | Vehicle and Equipment Replacements - Highway Diesel Vehicle Project Category: (other than Drayage) | | | | | les and Buses | |
| | Required Match %: | | | | | | Estimated DERA Share |
| Itam # | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | |
| 1 | Vehicle Replacement | Purchase from Vendor (no installation) | 2 | \$170,000.00 | \$340,000.00 | \$221,000.00 | \$119,000.00 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| | | Tot | Total Project Cost Estimate | | | \$221,000.00 | \$119,000.00 |

INVOICE/BILL OF SALE







Truck Country of Iowa, Inc. 3201 HWY 151/61 Dubuque, IA 52003 truckcountry.com

Contract #: VM101004658

Contract Date: 08/18/2020 Deal #: DE-11758

Customer #: 29086

Salesperson: Andy Ruden

Bill To: 29086

LIME ROCK SPRINGS CO 10537 HWY52 NORTH **DUBUQUE IA 520018857** Phone: (563)556-2921

Ship To:

LIME ROCK SPRINGS CO 10537 HWY52 NORTH **DUBUQUE, IA 520018857**

| Stock#: 690964 | New - 2021 WESTERN STAR 4700SF VIN: 5KJJAVFM7MPMP9025 | Price: Federal Excise Ta Total Unit Price: | \$113,373.77 \$13,344.23 \$126,718.00 |
|--------------------|---|--|---|
| | | Sub Total Incl FET | \$126,718.00 |
| | | DOC Fee: | \$62.50 |
| | | Total Purchase Price: | \$126,780.50 |
| | | NET BALANCE DUE ON DELIVERY | \$126,780.50 |
| BUT MAY BE CHARGED | DOCUMENTARY FEE IS NOT AN OFFICIAL FEE. I TO A BUYER FOR THE PREPARATION OF DOCUM AMOUNT THAT MAY BE CHARGED FOR A DENOTICE IS REQUIRED BY LAW. | A DOCUMENTARY FEE IS NOT REQUIRED JMENTS AND THE PERFORMANCE OF RELA DOCUMENTARY FEE IS DETERMINED BY IC | BY LAW, ATED OWA CODE |

| X PARAL L. R.S. Purchaser's Signature Purchaser's Signature | 08/18/2020 Date | Andy Ruden Sales representative Sales Representative Signature | 08/18/2020 Date |
|--|------------------------|---|---------------------------|
| SS/FFD ID# | | | |

INVOICE



School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702 (319) 296-1363 https://www.sbsales.com Invoice: 01S1018
Invoice Date: 07/20/2020
Deal/Packet: 1028/1
Branch: School Bus
Department: New

Bill-To:

NORTH IOWA COMMUNITY PO BOX 510 111 3RD AVE NW BUFFALO CENTER, IA 50424 Ship-To:

NORTH IOWA COMMUNITY PO BOX 510 111 3RD AVE NW BUFFALO CENTER, IA 50424

(10) No)(50) Pa ((64))(-652/2575 PA)() + SOLD UNIT(S)

Stock Number: 11647

VIN: 1BAKGCBA3MF377530

Year: 2021

Make: BB

Model: BBCV3303

Price:

\$108,313.00

0 1 0 0 0 0

Total Sold Unit(s):

Balance Due:

\$108,313.00

Total FET:

\$0.00

Total:

\$108,313.00

Net:

\$108,313.00

\$108.313.00

<u>Terms</u>

Due: 07/20/2020

Remit Balance Due To:

School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702

Comments:

Payment due on delivery.

Per unde, had check for delivery

INVOICE



School Bus Sales Co.

4537 Texas Street Waterloo, IA 50702 (319) 296-1363 https://www.sbsales.com

Invoice: 01S1019 Invoice Date: 07/20/2020 Deal/Packet: 1030/1 Branch: School Bus

Department: New

Bill-To:

NORTHWOOD-KENSETT C.S.D. 1200 1ST AVE. N. P.O. BOX 289 NORTHWOOD, IA 50459

Ship-To:

NORTHWOOD-KENSETT C.S.D. 1200 1ST AVE. N. P.O. BOX 289 NORTHWOOD, IA 50459

ID: N1100

Ph: (641) 324-2021

P/0:

Salesperson: Wade Campbell

+ SOLD UNIT(S)

Stock Number: 11648

\$110,403.00

VIN: 1BAKJCBA5MF377529

Year: 2021 Make: BB

Model: BBCV3507

Total Sold Unit(s):

\$110,403.00

Total FET:

Price:

\$0.00

Total:

\$110,403.00

Net:

\$110,403.00

Balance Due:

\$110,403.00

Terms

Due: 07/20/2020

Remit Balance Due To:

School Bus Sales Co. 4537 Texas Street Waterloo, IA 50702

Comments:

Payment due on delivery.

NORTHWOOD - KENSETT COMMUNITY SCHOOLS NORTHWOOD, IOWA 50459

Invoice Number

SCHOOLBUS School Bus Sales Invoice Date

Cust# Amount Description 09/08/2020

2147

01S1019

07/20/2020

110,403.00 2021 Bluebird school bus

Check Total: 110,403.00

HOGLUND BUS CO., INC.

823 S. 19th Avenue Marshalltown, IA 50158

phone: (641) 752-4733 fax: (641) 752-4547

Invoice No. 1889

Date: 5-Mar-2020

| INVOICE == | |
|---|--|
|) | |
| | |
| And a street of the street of | |

CUSTOMER Western Dubuque CSD Name 2 Attn: Bob Hingtgen SHIP 906 Jamesmeier Rd. Address Farley, IA 52046 City/State/Zip

| Our Order# | P.O. # | TERMS | SALES REP | FOB |
|------------|--------|------------|-------------|-----|
| 270511-551 | | on receipt | Marc Steele | |

| Qty | Description | Unit Price | TOTAL |
|-------|--|-------------|--------------|
| 5 | New 2021 75 Pass, School Bus 4DRBUC8N7MB216335 (27051i) 4DRBUC8N9MB216336 (27052i) 4DRBUC8N0MB216337 (27053i) 4DRBUC8N2MB216338 (27054i) 4DRBUC8N4MB216339 (27055i) | \$94,698.00 | \$473,490.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Tax, title & license are not included. | | |
| | Customer responsible for titling & registration of vehicle(s) | | |
| | Estimated Delivery Date: Please pay on or before this date. Thank you | | |
| | | | |

TOTAL \$473,490.00

Any warranties on the products sold hereby are those of the manufacturer. As between this retail seller and buyer, the product is to be sold "AS IS" and the entire risk as to the quality and performance of the product is with the buyer. The seller expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose, and the seller neither assumes nor authorizes any other person to assume for it any liability in connection with sale of sald products. This disclaimer by this seller in no way affects the terms of the manufacturer's warranty. The buyer acknowledges being so informed prior to the sele.

Name: Hy-Vee Distribution Center

Project Category: Vehicle and Equipment Replacements - Highway Diesel Vehicles and Buses **Required Match %:** 55%

| Item# | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
|-------|--|---|----------|------------------------|----------------------------|--------------------------------------|-------------------------|
| 1 | Orange EV T-Series Extended Duty 160 kW Electrict Terminal Truck | Purchase from Vendor (no installation) | 1 | \$329,418.00 | \$329,418.00 | \$181,179.90 | \$148,238.10 |
| 2 | Charger Installation | Installation Only (Contractor) | 1 | \$4,000.00 | \$4,000.00 | \$2,200.00 | \$1,800.00 |
| 3 | Scrap Vehicle | Purchase from Vendor (no installation) | 1 | \$1,000.00 | \$1,000.00 | \$550.00 | \$450.00 |
| | | Tota | l Projec | t Cost Estimate | \$334,418.00 | \$183,929.90 | \$150,488 |

| | Name | Iowa Steel & Wire Compa | ny, Inc. | | | | |
|-------|-----------------------------------|---|----------|------------------------|----------------------------|--------------------------------------|--------------------------|
| | Project Category | Vehicle and Equipment Re | placem | ents - Locomo | tives and Nonro | oad Diesel Vehic | The second second second |
| | Required Match % | 55% | ; | | | | |
| item# | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
| 1 | Linde E20PElectric Forklift | Purchase from Vendor (no installation) | 1 | \$67,490.00 | \$67,490.00 | \$37,119.50 | \$30,370 |
| 2 | Linde E30PElectric Forklift | Purchase from Vendor (no installation) | 1 | \$72,680.00 | \$72,680.00 | \$39,974.00 | \$32,706 |
| 3 | Hyster J60XN Electric Forklift | Purchase from Vendor (no installation) | 1 | \$62,574.00 | \$62,574.00 | \$34,415.70 | \$28,158 |
| 4 | Hyster J40XN Electric Forklift | Purchase from Vendor (no installation) | 1 | \$42,681.00 | \$42,681.00 | \$23,474.55 | \$19,206 |

| Total | | | | |
|-----------------|--------------|--------------|-----------|---|
| Project | | | | |
| Cost | | | | ı |
| Estimate | \$245,425.00 | \$134,983.75 | \$110,440 | |

Name: Keokuk County Highway Department

Project Category: Vehicle and Equipment Replacements - Highway Diesel Vehicles and Buses Required Match %: 65%

| | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
|---|--------------------|--|--------|------------------------|----------------------------|--------------------------------------|-------------------------|
| 1 | Class 8 Dump Truck | Purchase from Vendor (no installation) | 1 | \$200,000.00 | \$200,000.00 | \$130,000.00 | \$70,000.00 |
| | | | | | \$0.00 | \$0.00 | \$0.00 |
| | <u> </u> | | | | \$0.00 | \$0.00 | \$0.00 |
| | | Total | Projec | t Cost Estimate | \$200,000.00 | \$130,000.00 | \$70,000.00 |

Name: Lime Rock Springs DBA/Pepsi-Cola Bottling Co of Dubuque

Project Category: Vehicle and Equipment Replacements - Highway Diesel Vehicles and Buses

Required Match %: 75%

| ltem # | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
|--------|-------------------------------------|---|----------|------------------------|----------------------------|--------------------------------------|-------------------------|
| 1 | Purchase 2022 Western Star Truck | Purchase from Vendor (no installation) | 1 | \$104,947.00 | \$104,947.00 | \$78,710.25 | \$26,236 |
| | | | | | \$0.00 | \$0.00 | \$0.00 |
| | | | | | \$0.00 | \$0.00 | \$0.00 |
| | | Tota | l Projec | t Cost Estimate | \$104,947.00 | \$78,710.25 | \$26,236 |

| | Name | Mahaska County Seconda | ry Road | s Department | | | |
|--------|--|--|---------|-----------------|--------------------|---------------------|-------------|
| | Project Category | Vehicle and Equipment Re | placem | ents - Highway | Diesel Vehicles | and Buses | |
| | Required Match % | 75% | | - | | | |
| ltam # | Doscription | Mothed of Dressmann | | Estimated | Total Estimated | Estimated Mandatory | Estimated |
| Item# | Description | Method of Procurement | | Unit Cost | Cost | Cost Share | DERA Share |
| 1 | Purchase 2021 Volvo VHD42F300 Single-Axle | Purchase from Vendor (no installation) | 1 | \$175,000.00 | \$175,000.00 | \$131,250.00 | \$43,750.00 |
| | Dump Truck | | | | , | | |
| | | | | | \$0.00 | \$0.00 | \$0.00 |
| | | | | | \$0.00 | \$0.00 | \$0.00 |
| | | Total | Projec | t Cost Estimate | \$175,000.00 | \$131,250.00 | \$43,750.00 |

Name: Sunflower Enterprises - Captain Newt

Project Category: Certified Engine Replacement - Locomotive, Marine and Nonroad Diesel Vehicles Required Match %: 60%

| Item # | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
|--------|---|---|----------|------------------------|----------------------------|--------------------------------------|-------------------------|
| 1 | Northern Lights Auxiliary Engines and other equipment | Purchase from Vendor (no installation) | 1 | \$95,150.05 | \$95,150.05 | \$57,090.03 | \$38,060 |
| 3 | Labor | instaliation Only (in- house) | 1 | \$106,867.94 | \$106,867.94 | \$64,120.76 | \$42,747 |
| 4 | Drydock | instaliation Only (in- house) | 1 | \$110,549.72 | \$110,549.72 | \$66,329.83 | \$44,220 |
| | | Tota | i Projec | t Cost Estimate | \$312,567.71 | \$187,540.63 | \$125,027 |

Name: Sunflower Enterprises - M/V Beiglan

Project Category: Certified Engine Replacement - Locomotive, Marine and Nonroad Diesel Vehicles
Required Match %: 60%

| Item# | Description | Method of Procurement | Units | Estimated Unit Cost | Total Estimated Cost | Estimated Mandatory Cost Share | Estimated DERA Share |
|-------|---|---|--------|------------------------|----------------------------|--------------------------------------|----------------------|
| 1 | Volvo D16 650 hp Main Engines and other equipment | Purchase from Vendor (no Installation) | 1 | \$470,839.00 | \$470,839.00 | \$282,503.40 | \$188,336 |
| 2 | Labor | Installation Only (In- house) | 1 | \$173,769.17 | \$173,769.17 | \$104,261.50 | \$69,508 |
| 3 | Drydock | Installation Only (In- house) | 1 | \$135,139.42 | \$135,139.42 | \$81,083.65 | \$54,056 |
| | | Tota | Projec | t Cost Estimate | \$779,747.59 | \$467,848.55 | \$311,899 |

ATTACHMENT E DERA OPTION (5.2.12)

Consistent with 5.2.12 of the *Environmental Mitigation Trust Agreement for State Beneficiaries* (Trust), Beneficiaries may use its DERA proposal as support for its funding request for those Eligible Mitigation Actions funded through the DERA Option. Cost share requirements are in the table below.

The following pages consist of the Iowa DOT's Fiscal Year 2019-2020 State Clean Diesel Grant Program Work Plan and Budget Narrative.

DERA Funding Limits and Mandatory Cost-Share Requirements for Eligible Activities

| DERA ELIGIBLE ACTIVITIES | DERA FUNDING LIMITS | MINIMUM COST- SHARE (FLEET OWNER CONTRIBUTION) |
|--|---------------------------|--|
| Exhaust Control Retrofit | 100% | 0% |
| Engine Upgrade/Remanufacture | 40% | 60% |
| Highway Idle Reduction bundled with Exhaust Control Retrofit | 100% | 0% |
| Stand-alone Highway Idle Reduction | 25% | 75% |
| Locomotive Idle Reduction | 40% | 60% |
| Marine Shore Power | 25% | 75% |
| Electrified Parking Space | 30% | 70% |
| Engine Replacement – Diesel or Alternative Fuel | 40% | 60% |
| Engine Replacement – Low NOx* | 50% | 50% |
| Engine Replacement – Zero Emission | 60% | 40% |
| Vehicle/Equipment Replacement – Diesel or Alternative Fuel | 25% | 75% |
| Vehicle/Equipment Replacement – Low NOx* | 35% | 65% |
| Vehicle/Equipment Replacement - Zero Emission | 45% | 55% |
| Vehicle Replacement - Drayage | 50% | 50% |
| Clean Alternative Fuel Conversion | 40% | 60% |

2020 Diesel Emissions Reduction Act (DERA) State Grants

Work Plan and Budget Narrative Template

INSTRUCTIONS: States and territories applying for 2020 DERA State Grant funds must use this template to prepare their Work Plan and Budget Narrative.

Please refer to the 2019-2020 DERA State Grants Program Guide full program details, eligibility criteria and funding restrictions, and application instructions.

SUMMARY PAGE

Project Title:

Project Manager and Contact Information

Organization Name: Iowa Department of Transportation

Project Manager: Jared Smith

Mailing Address: 800 Lincoln Way, Ames, Iowa 50010

Phone: 515-239-1713

Fax: N/A

Email: Jared.smith@iowadot.us

Project Budget Overview:

| | 2019* | 2020 | |
|---|-----------|-----------|--|
| EPA Base Allocation | \$319,050 | \$335,566 | |
| EPA Match Bonus (if applicable) | \$159,525 | \$167,783 | |
| State or Territory Voluntary Matching Funds (if applicable) | \$319,050 | \$335,566 | |
| Mandatory Cost-Share | \$ | \$ | |
| TOTAL Project Cost | \$797,625 | \$838,915 | |

^{*}If state participated in 2019

Project Period

October 1, 2019 – September 30, 2021

Summary Statement

The Iowa Department of Transportation (Iowa DOT) will create and implement a process that will allow profit, non-profit, and public entities that own or operate diesel fleets and equipment in all 99 counties to receive funding for diesel emission reduction projects in FY 2020. Projects will need to implement the most cost-effective strategies that result in the greatest emissions reductions consistent with the funding available. The state currently has two websites that detail past DERA State Clean Diesel Program projects. One website is located at www.iowadnr.gov/dera and is maintained by the Iowa Department of Natural Resources. This website lists projects that were completed with the 2016 DERA program. The 2017 and 2018

DERA programs are administered by the Iowa DOT and its website is located here: https://www.iowadot.gov/dera. Links are available to help the user navigate from one site to the other.

SCOPE OF WORK

STATE/TERRITORY GOALS AND PRIORITIES:

Mobile sources emit various pollutants including carbon monoxide (CO), carbon dioxide (CO₂), particulate matter (PM), nitrogen oxides (NO_x), volatile organic compounds (VOC), also referred to as hydrocarbons (HC), and various other air toxics. Mobile source emissions are contributors to high fine particulates (PM_{2.5}) background levels and are responsible for over fifty percent (50%) of all NO_x emissions. NO_x emissions are formed primarily due to fuel burning at a high temperature in a vehicle engine. Hydrocarbons result from incomplete fuel combustion and from fuel evaporation. Ground-level ozone, a serious air pollutant is formed by reactions involving hydrocarbons and nitrogen oxides in the presence of sunlight.

While federal standards continue to ensure a reduction of emissions from newer diesel engines; older, dirtier diesel engines still remain in service and continue to emit unrestricted levels of air pollution. Iowa's state regulations are not allowed by state statute to be more stringent than federal standards for vehicles and Iowa does not have a state regulatory program for mobile source emissions. Creating emission reduction programs and funding opportunities can aid in reducing the levels of ozone, PM, and other pollutants in areas of concern and improve air quality in higher population density areas where at-risk populations (elderly, poor health, children) live, work and play. Reducing diesel exhaust is an important strategy in helping lower pollutants across Iowa.

Iowa's air contains a relatively high concentration of fine particles across the state. For the past few years, monitored areas around Iowa have been on the edge of EPA's health standard for fine particulate matter with a diameter less than or equal to 2.5 microns (PM_{2.5}). Add in prevailing winds, centers of industry and concentrated areas of diesel exhaust, some counties are being observed. Currently though, Iowa does not have any designated air quality nonattainment or maintenance areas for transportation-related air pollution that do not meet the National Ambient Air Quality Standards of the 1990 Clean Air Act Amendments. Overall, Iowa's air quality has improved dramatically since 1978, largely due to large facilities across Iowa that have actively worked to reduce emissions by replacing aging equipment with more efficient technology that incorporates the latest emissions controls. While Iowa's trend since 1978 shows substantial benefits in air quality and decreases in air pollutant emissions, Iowa's productivity, populations, and vehicle travel miles increased – all potential sources of pollution. Iowa's gross domestic product is up by 65 percent since 1990, vehicle miles traveled climbed by 38 percent and population increased by 11 percent. To see real-time air quality data, please visit the Iowa Department of Natural Resources Air Quality Bureau webpage on Monitoring Ambient Air.

The primary sectors that make up the diesel fleet in Iowa are aircraft, commercial marine vessels, locomotives, non-road equipment, on-road diesel heavy duty vehicles, and on-road diesel light

duty vehicles. According to EPA's 2014 National Emissions Inventory for Iowa, on-road diesel transportation was the second largest source of mobile pollution in general and the largest source of pollution among all mobile sources for carbon monoxide (CO) at 42%, and ammonia (NH₃) at 68%. Non-road diesel equipment is the largest source of mobile pollution in general. A cursory review of the mobile and stationary source emissions inventory data for nitrogen oxides (NO_x) indicates that NO_x emissions from mobile on-road diesel sources are greater than that from stationary sources. Partnering with public and private organizations to reduce mobile diesel engine emissions will be beneficial to reducing these air pollution emissions.

VEHICLES AND TECHNOLOGIES:

Eligible Entities. Funding for diesel emission reduction projects is available to profit, nonprofit, and public entities that own or operate diesel fleets and equipment in the state of Iowa.

Eligible Diesel Vehicles, Engines, and Equipment. Eligible on-road or non-road vehicles and equipment may include:

- School Buses (of Type A, B, C, and D);
- Medium-duty or Heavy-duty Transit Buses;
- Medium-duty or Heavy-duty Trucks (defined as Class 5 through Class 8);
- Marine Engines;
- Locomotives; and
- Non-road engines, equipment, or vehicles used in:
 - Construction;
 - Handling of cargo (including at a port or airport);
 - Agriculture;
 - o Mining; or
 - Energy production (including stationary generators and pumps)

Eligible Diesel Emission Reduction Strategies

Diesel Engine Retrofit Technologies

- Diesel engine retrofits include pollution control devices installed in the exhaust system, such as diesel oxidation catalysts (DOCs) and diesel particulate filters (DPFs), or systems that include closed crankcase ventilation filtration systems.
- The type(s) of diesel engine retrofits technology being used must be included on the list of EPA verified technologies (www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel) or CARB verified technologies (www.arb.ca.gov/diesel/verdev/vt/cvt.htm) at the time of proposal submission to the EPA. The exhaust control can only be used on the vehicle/engine identified on the list and used only in the manner specified.
- If diesel particulate filters (DPF) is the diesel engine retrofit technology being used, it is highly recommended all vehicles being considered have the exhaust temperature data logged to verify the technology can indeed be placed on the vehicle and each

- applicant consult with retrofit suppliers to confirm the vehicle/engine is a good candidate.
- Funding Restrictions: Able to fund up to 100% of the cost (labor and equipment) for an eligible verified diesel engine retrofit technology.

Engine Upgrades and Remanufacture Systems

- An engine upgrade involves the removal of parts on an engine during a rebuild and replacement with parts that cause the engine to represent an engine configuration which is cleaner than the original engine.
- Some locomotives and marine engines can be upgraded through the application of a certified remanufacture system that is used to rebuild the engine to represent a cleaner engine configuration.
- Applications for upgrades should include a discussion of the availability of engine upgrade kits/systems and indicate the pre- and post-project emission standard levels of the engines to demonstrate that the upgrade will result in a significant emission benefit.
- If selected for funding, the actual engine upgrades used by the grant recipient must be specifically named on EPA's list of certified remanufacture systems or EPA or CARB's Verified Technologies lists at the time of acquisition and used only for the vehicle/engine applications specified on the lists, to be eligible for funding.
- Funding Restrictions: Able to fund up to 40% of the cost (labor and equipment) of an eligible nonroad, locomotive, or marine engine upgrade.

Cleaner Fuels and Additives

- Cleaner fuels and additives are limited to those verified by EPA and/or CARB to achieve emissions reductions when applied to an existing diesel engine.
- A list of eligible, EPA-verified cleaner fuels and additives is available at: www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel; a list of eligible, CARB-verified cleaner fuels and additives is available at: www.arb.ca.gov/diesel/verdev/vt/cvt.htm. The types of fuels and additives (e.g., biodiesel, cetane enhancers) proposed for funding under this category must exist on one of these lists for the specific vehicle/engine application specified in the application and used only for the vehicle/engine applications specified on the list to be eligible for

funding.

Funding restrictions: Stand-alone cleaner fuel/additive use will not be funded. For new or
expanded use, this funding can cover the cost differential between the cleaner
fuel/additive and conventional diesel fuel if that cleaner fuel is used in combination, and
on the same vehicle, with a new eligible verified engine retrofit or an eligible engine
upgrade or an eligible certified engine replacement or an eligible certified
vehicle/equipment replacement funded under this Program.

Idle Reduction Technologies

- Idle reduction generally defined as "the installation of a technology or device that
 reduces unnecessary idling of diesel vehicles or equipment and/or is designed to provide
 services (such as heat, air conditioning, and/or electricity) to vehicles and equipment that
 would otherwise require the operation of the main drive or auxiliary engine(s) while the
 vehicle is temporarily parked or remains stationary."
- A list of eligible, EPA verified idle reduction technologies is available at: www.epa.gov/verified-diesel-tech/smartway-technology. The type of idle reduction technology proposed for funding must exist on the list at the time of application. The actual idle reduction technologies used must be specifically named on EPA's SmartWay Verified Technologies list at the time of acquisition and used only for the vehicle/engine applications specified on the list.
- Funding Restrictions:
 - Locomotive Idle Reduction Technologies:
 - Able to fund up to 40 percent of the cost (labor and equipment) of eligible verified idle reduction technologies for locomotives.

Electrified Parking Spaces:

Able to fund up to 30 percent of the cost (labor and equipment) of eligible electrified parking space technologies, also known as Truck Stop Electrification, including the cost of modifications, attachments, accessories, or auxiliary apparatus necessary to make the equipment functional.

Marine Shore Power Connection Systems:

Able to fund up to 25 percent of the cost (labor and equipment) of eligible marine shore power connection systems, including the cost of modifications, attachments, accessories, or auxiliary apparatus necessary to make the equipment functional.

Highway Idle Reduction Technologies:

- Able to fund up to 100% of the cost (labor and equipment) for verified idle reduction technologies installed on long haul Class 8 trucks and school buses, if combined on the same vehicle with the new installation of one or more of the Verified Engine Retrofit Technologies funded under this Program.
- Able to fund up to 100% of the cost (labor and equipment) for verified idle reduction technologies installed on long haul Class 8 trucks and

school buses with model year 2006 or older engines that have been previously retrofitted with a verified emission control device. Able to fund up to 25 percent of the cost (labor and equipment) of eligible verified idle reduction technologies on long-haul trucks and school buses.

Aerodynamic Technologies and Verified Low Rolling Resistance Tire

- Long haul Class 8 trucks can be retrofitted with aerodynamic trailer fairings or the fairings can be provided as new equipment.
- Certain tire models can provide a reduction in NOx emissions and fuel savings, relative to the "standard" new tires for long haul Class 8 trucks, when used on all axles.
- A complete list of EPA verified aerodynamic technologies is available at
 <u>www.epa.gov/verified-diesel-tech/smartway-verified-list-aerodynamic-devices.</u> If
 selected, the actual tires used must be specifically named on EPA's SmartWay Verified
 Technologies list at the time of acquisition and used only for the vehicle/engine
 applications specified on the list in order to be eligible for funding.
- A list of EPA verified low rolling resistance tires is available at: www.epa.gov/verified-diesel-tech/smartway-verified-list-low-rolling-resistance-lrr-new-and-retread-tire. If selected, the actual tires used must be specifically named on EPA's SmartWay Verified Technologies list at the time of acquisition and used only for the vehicle/engine applications specified on the list in order to be eligible for funding.
- Funding Restrictions: Able to fund up to 100% of cost (labor and equipment) for verified aerodynamic technologies or low rolling resistance tires installed on long haul Class 8 trucks, if the technology is combined on the same vehicle with the new installation of one or more of the Verified Engine Retrofit Technologies funded under this program.
 Stand- alone aerodynamic technologies or low rolling resistance tires will not be funded.
 Note: Low rolling resistance tires are not eligible for funding if they have previously been installed on the truck.

Engine Replacement

- An engine replacement includes replacing an existing engine with a newer, cleaner engine that is certified to a more stringent set of engine emission standards. Engine replacements include:
 - Diesel engine replacement with an engine certified for use with diesel or an alternative fuel (e.g., gasoline, CNG, propane);
 - Diesel engine replacement with a zero tailpipe emissions power source (grid, battery or fuel cell); and/or,
 - Diesel engine replacement with an electric generator(s) (genset).
- The eligible cost of engine replacement includes the cost of modifications, attachments, accessories, or auxiliary apparatus necessary to make the equipment functional, including related labor expenses. Charges for equipment and parts on engine replacement projects are only eligible for funding if they are included in the certified engine configuration and/or are required to ensure

the effective installation and functioning of the new technology but are not part of typical vehicle or equipment maintenance or repair.

Funding Restrictions:

- o Locomotive, Marine, and Nonroad Diesel Vehicles and Equipment:
 - Able to fund up to 40% of the cost (labor and equipment) of replacing a diesel engine with a 2019 model year or newer engine certified to EPA emission standards. Previous engine model year engines may be used if the engine is certified to the same emission standards applicable to the engine in EMY 2019. Nonroad, locomotive, and marine engine emission standards are on EPA's website at: www.epa.gov/emissionstandards-reference-guide/epa-emission-standards-nonroad-engines-and-vehicles.
 - Able to fund up to 60% of the cost (labor and equipment) of replacing a diesel engine with a zero tailpipe emissions power source.

Highway Diesel Vehicles:

- Able to fund up to 40% of the cost (labor and equipment) of replacing a diesel engine with a 2016 model year or newer engine certified to EPA emission standards. Highway engine emission standards are on EPA's website at: www.epa.gov/emission-standards-heavy-duty-highway-engines-and-vehicles.
- Able to fund up to 50% of the cost (labor and equipment) of replacing a diesel engine with a 2016 model year or newer engine that is certified to CARB's Optional Low-NO_x Standards of 0.1 g/bhp-hr, 0.05 g/bhp-hr, or 0.02 g/bhp-hr NO_x. Engines certified to CARB's Optional Low NO_x Standards may be found by searching CARB's Executive Orders for Heavy-duty Engines and Vehicles, found at: www.arb.ca.gov/msprog/onroad/cert/cert.php.
- Able to fund up to 60% of the cost (labor and equipment) of replacing a diesel engine with a zero tailpipe emissions power source.

Vehicle and Equipment Replacements

- Non-road and highway diesel vehicles and equipment, locomotives, and marine vessels
 can be replaced under this program with newer, cleaner vehicles and equipment that
 operate on diesel or alternative fuels and use engines certified by EPA, and if applicable,
 CARB to meet a more stringent set of engine emission standards.
- The eligible cost of a vehicle/equipment replacement includes the cost of modifications, attachments, accessories, or auxiliary apparatus necessary to make the equipment functional.
- Funding Restrictions:
 - o Locomotives, Marine Vessels and Nonroad Diesel Vehicles and Equipment:
 - Able to fund up to 25% of the cost of a replacement locomotive, marine vessel, or nonroad vehicle or piece of equipment powered by a 2019 model year or newer engine certified to EPA emission standards. Previous

engine model year engines may be used if the engine is certified to the same emission standards applicable to EMY 2019. Nonroad, locomotive and marine engine emission standards are on EPA's website at:

www.epa.gov/emission-standards-reference-guide/epa-emissionstandards- nonroad-engines-and-vehicles.

Able to fund up to 45% of the cost of a new, zero tailpipe emissions locomotive, marine vessel, or nonroad vehicle or piece of equipment.

• Highway Diesel Vehicles and Buses (other than Drayage):

- Able to fund up to 25% of the cost of a replacement vehicle powered by a 2016 model year or newer engine certified to EPA emission standards. Highway engine emission standards are on EPA's website at: www.epa.gov/emission-standardsreference-guide/epa-emission-standards-heavy-duty-highway-engines-and-vehicles.
- Able to fund up to 35% of the cost of a replacement vehicle powered by a 2016 model year or newer engine certified to meet CARB's Optional Low-NO_x Standards of 0.1 g/bhp-hr, 0.05 g/bhp-hr, or 0.02 g/bhp-hr NO_x. Engines certified to CARB's Optional Low NO_x Standards may be found by searching CARB's Executive Orders for Heavy-duty Engines and Vehicles, found at: www.arb.ca.gov/msprog/onroad/cert/cert.php.
- Able to fund up to 45% of the cost of a new, zero tailpipe emissions replacement vehicle.

o Drayage Vehicles:

- Able to fund up to 50% of the cost of a replacement drayage truck powered by a 2013 model year or newer certified engine. (A "Drayage Truck" means any Class 8 (GVWR greater than 33,000) highway vehicle operating on or transgressing through port or intermodal rail yard property for the purpose of loading, unloading or transporting cargo, such as containerized, bulk or break-bulk goods.)
- Drayage Operating Guidelines: If an application for the replacement of drayage trucks is selected for funding, the grant recipient will be required to establish guidelines to ensure that any existing truck replaced with grant funds has a history of operating on a frequent basis over the prior year as a drayage truck, and to ensure any new truck purchased with grant funds is operated in a manner consistent with the definition of a drayage truck, as defined above. For an example of sample guidelines, see https://www.epa.gov/cleandiesel/clean-diesel-state-forms-and-documents.
- Required/Scheduled Maintenance: EPA will fund the required/scheduled vehicle maintenance, as specified in the owner's manual, which is necessary to meet the warranty requirements for diesel particulate filters installed on drayage trucks. Funding for required maintenance is available for the duration of the project period.

Clean Alternative Fuel Conversions:

- Aftermarket clean alternative fuel conversions involve altering the conventional, original equipment manufacturer (OEM) highway diesel vehicles and engines to operate on alternative fuels such as propane or natural gas.
- Conversion kits must be on EPA's lists of "Certified Conversion Systems for New Vehicles and Engines" and "Conversion Systems for Intermediate-Age Vehicles and Engines", available at www.epa.gov/vehicle-and-engine-certification/lists-epa-compliantalternative-fuel-conversion-systems; CARB's list of "Approved Alternate Fuel Retrofit Systems" are available at: www.arb.ca.gov/msprog/aftermkt/altfuel/altfuel.htm.
- \bullet To be eligible for funding, conversion systems for engine model years 1995-2006 must achieve at least a 30% NOx reduction and a 10% PM reduction from the applicable certified emission standards of the original engine. Conversion systems for engine model years
 - 2007-2009 must achieve at least a 20% NO_x reduction with no increase in PM from the applicable certified emission standards of the original engine.
- Funding Restrictions: Able to fund up to 40% of the cost (labor and equipment) of an eligible certified or compliant clean alternative fuel conversion.

ROLES AND RESPONSIBILITIES:

With the effort to reduce diesel emissions both inside and outside the vehicles, the Iowa DOT will create a competitive grant process, select eligible entities as program beneficiaries and ensure the implementation of the most cost-effective strategies that result in the greatest emissions reductions consistent with the funding available.

Program beneficiaries cannot be identified at this time as eligible entities have not been selected. Partners may include profit, nonprofit, and public entities that own or operate diesel fleets and equipment in the state of Iowa. Each program beneficiary will assign a specific contact who will be responsible for determining the vehicles that will be included, the appropriate strategy for diesel emissions reduction, the technologies to use, etc. The specific program beneficiary contact will manage the project activities and logistics to ensure timely, appropriate completion of the project and general reports and updates to the Iowa DOT.

The Iowa DOT will be responsible for selecting eligible entities, developing and managing all written agreements, handling oversight of the entire federal grant award, and submitting all quarterly and final reports.

Project Description. Projects will need to implement the most cost-effective strategies that result in the greatest emissions reductions consistent with the funding available. Interested entities will be required to submit an application identifying the strategy that makes the most sense for their diesel engine operations. The submitted application must at a minimum:

- Identify the type of diesel reduction strategy.
- Identify the type of vehicle or equipment. Information will need to include (but is not

- limited to) year, make/model, VIN #, and useful life;
- Give priority to the most used and oldest, highest emitting vehicles or equipment to optimize emissions reductions;
- Give priority to vehicles or equipment that generally serve areas with higher population density and a higher percentage of at-risk populations; and
- Implement the most cost-effective strategies that result in the greatest emissions reductions consistent with the funding available.

The Iowa DOT will use established evaluation criteria and will have the discretion to fund only the most effective components of the applications selected for reimbursement. Successful applicants will be required to sign a written agreement with the Iowa DOT, purchase and install the technology/equipment per the award agreement and be reimbursed for eligible expenses.

Specific Requirements. Eligible entities must understand and be willing to agree with all requirements as they relate to specifics of the diesel reduction strategies, early attrition policies, and disablement. A guidebook is available on the Iowa DOT's website that outlines the program (https://iowadot.gov/dera/pdfs/DERA_Grant_Program_Info_Guide.pdf) and will be updated as needed.

Evaluation Criteria. The evaluation criteria will include items such as:

- Number of registered Volkswagen vehicles in the county of the project (due to Iowa's state match coming from the DERA Option of the Volkswagen Settlement);
- Mobile source air pollution in areas of concern;
- Diesel Emissions Quantifier emission reduction estimates for NOx, PM2.5, VOC, and CO:
- Impacts of diesel emissions on sensitive populations related to human health (rate of asthma and rate of heart disease), environment (ozone), global climate (CO2) and areas of vulnerable populations;
- Priority county locations as noted in the 2020 Priority County List (air quality concerns); and,
- Cost effectiveness of NOx emission reduction (dollars per amount of NOx emissions reduced).

Funding and Match Requirements. Participating program beneficiaries will be eligible to receive a one-time, lump-sum reimbursement for up to the allowable cost share of eligible equipment and installation costs of their projects. The Iowa DOT will reimburse program beneficiaries, dependent on their project, up to the percentages outlined in the DERA Program Guide.



A participant support cost will not be considered incurred until the funded technology and/or equipment has been received and accepted by the organization. Request for reimbursement shall include documentation to show that the technology/equipment has been received and installed, that disablement has occurred (if necessary), that all written agreement requirements have been met, and that the expenses have been incurred and paid by the participating program beneficiary. A written agreement between the Iowa DOT and the program beneficiary will include the following at a minimum:

- A description of the activities that will be eligible for reimbursement and supported by rebates, subsidies, or other payments;
- Identification of which party will have the title to the equipment (if any) purchased with a rebate or subsidy;
- Specified maximum amount eligible to be paid from the rebate, subsidy, or payment; and
- A description of the source documentation requirements to ensure proper accounting of EPA funds.

Matching funds are required for all projects that are not eligible for 100 percent reimbursement. Required matches must be monetary. Participating organizations may provide additional voluntary match, and if used, must enhance and expand the proposed project.

TIMELINE AND MILESTONES:

| Major Milestones | Completion Dates | |
|--|----------------------------------|--|
| Deadline to submit work plan and budget narrative to EPA region | April 15, 2020 | |
| Deadline to submit application on Grants.gov | May 14, 2020 | |
| Request for grant applications from participating organizations | July 1 – August 31, 2020 | |
| Iowa DOT evaluates applications | September 2020 | |
| Project period for FY 2020 begins | October 1, 2020 | |
| Prepare agreement(s) between Iowa DOT and participating organization | October 1 – 15, 2020 | |
| Participating organization project begins | November 1, 2020 | |
| Public notification of projects on Iowa DOT's DERA website | 60 days from agreement execution | |
| Quarterly reporting due to EPA | Ongoing | |
| Deadline for FY 2020 projects to be completed | September 30, 2021 | |
| Final reporting due to EPA | December 31, 2021 | |

DERA PROGRAMMATIC PRIORITIES:

Priority Location. Areas in proximity to major transport routes or terminals, and areas which generate large amounts of truck traffic or school bus depots/yards (e.g. parking areas and/or garages where school buses are stored and maintained, or where school buses queue) tend to be locations where a disproportionate quantity of air pollution from diesel fleets occurs. Projects to decrease the diesel emissions within one or more of these seven counties listed in the 2020 Priority County List would also help to alleviate the disproportionate quantity of air pollution.

Public Health Benefits. Because Iowa has historically not had air pollution concerns, the general population thinks of air quality in terms of odors and visibility--not its impact on people's health. Ground-level ozone causes health problems such as difficulty breathing, lung damage, and reduced cardiovascular functioning. Scientific studies have linked fine particle matter with a series of significant health problems such as respiratory related hospital admissions and emergency room visits, aggravated asthma, and acute respiratory symptoms - including aggravated, coughing and difficult or painful breathing.

Reducing NOx, HC, PM2.5, and other pollutants and exposure to these pollutants through diesel emission reductions can help improve health benefits. It could also potentially decrease the cost of health care for asthmatics and high-risk populations, such as children and the elderly.

Cost-effectiveness. Actual cost effectiveness will in part be dependent on the specific strategies, manufacturer, technologies and applications involved in the program. Priority will be given to the oldest, highest emitting vehicles and equipment to optimize emissions reductions and associated cost-effectiveness of the reductions.

Verified Technologies. For any diesel engine operated vehicles being selected for retrofit technologies, the participating organizations will be required to use technologies from a list of EPA verified technologies (https://www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel) or CARB verified technologies (http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm).

Replacement vehicles will not be used to increase the size of fleets and must be early attrition projects. The new vehicle or equipment will be required to replace that of the same type and similar gross vehicle weight rating or horsepower and perform the same function. Replaced engines, vehicles, or equipment will be permanently disabled and documentation showing the disablement will be required. All new engines will be certified to comply with EPA emission standards in place at the time of certification.

Useful life of retrofits and engines. Previous projects undertaken by the Iowa Department of Natural Resources Air Quality Bureau have shown that technologies such as diesel oxidation catalysts (DOC) and diesel particulate filters (DPFs) have a useful life of five to ten years. The Iowa DOT will evaluate submitted plans to determine the useful life of engine configuration or verified technologies. All attempts to maximize the life of the vehicles/equipment will be made.

Conserve diesel fuel. Most retrofit technologies, such as DOCs and DPFs, require the use of ultra- low sulfur diesel fuel. Although some technologies (DOCs) can operate with levels of 500 ppm, the majority of retrofits are most effective when the sulfur content is 15 ppm or less. Vehicle replacement alone can provide benefits in fuel efficiency and may provide additional savings in fuel costs.

EPA'S STRATEGIC PLAN LINKAGE AND ANTICIPATED OUTCOMES/OUTPUTS:

Linkage to EPA Strategic Plan. By taking a statewide approach with this program, the projects selected by the Iowa DOT will reduce local and regional air pollution. Selected diesel emission reduction strategies and technologies will decrease the amount of PM2.5, oxides of nitrogen (NOX), carbon dioxide (CO2), volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) emitted from mobile diesel sources.

Organizations participating in the program are making an effort to implement voluntary emissions reductions to their vehicles and equipment. Taking voluntary measures to decrease diesel emissions shows citizens in Iowa that the organizations are serious about decreasing pollution and protecting high-risk populations.

Outputs. Specific outputs cannot be determined at this time since the plan for what strategies and vehicles are intended to be the focus of emissions reductions will not be known until the Iowa DOT has selected one or more project proposals.

During project execution, the Iowa DOT may report on the following outputs, but are not limited to:

- number of replaced or retrofitted engines/vehicles/equipment; and/or
- hours of idling reduced.
- engaging affected communities with respect to the design and performance of the project,
- the project's inclusion in a broader-based environmental or air quality plan;
- the implementation of contract specifications requiring the use of cleaner vehicles and equipment;
- a documented commitment to continue to identify and address air quality issues in the affected community;
- a publicly available community engagement plan for meaningful engagement of the affected communities regarding either the environmental and/or other issues that the project is intended to address;
- adoption of an idle reduction policy;
- providing support to clean diesel coalitions by sharing information, working with interested fleets, and addressing specific geographic needs;
- number of subawards; and/or
- dissemination of project/technology information via list serves, websites, journals and outreach events.

Progress reports and a final report will also be outputs.

Outcomes. Through this effort and other efforts already in progress, the Iowa DOT expects to see improved ambient air quality in the state. Continued attainment of EPA health standards will reflect this, although other factors beyond diesel emission reductions will also contribute to this measurement. Continued attention to voluntary efforts that will reduce air pollution will not only help keep Iowa's air quality in attainment but will also help reduce the health risks of targeted "high-risk" populations.

EPA's Diesel Emissions Quantifier will be used to help estimate some of these expected outputs from the projects to be funded. Expected and potential outcomes may include, but are not limited to:

- tons of pollution reduced over the lifetime of the vehicles/engines/equipment, specifically:
 - o fine particulate matter $(PM_{2.5})$,
 - o nitrogen oxides (NO_x),
 - o carbon monoxide (CO) and carbon dioxide (CO₂), and/or
 - o volatile organic compounds (VOCs).
- tons of pollution reduced annually;
- lifetime total project cost effectiveness for NO_x and PM_{2.5};
- lifetime capital cost effectiveness for NO_x and PM_{2.5};
- net reduction in gallons of diesel fuel used;
- benefits to the communities affected by the project, including improvements to human health and the environment, the local economy, social conditions, and the welfare of residents in such communities
- community engagement and partnership;
- improved ambient air quality;
- health benefits achieved;
- changes in driver behavior regarding idling practices;
- an increased understanding of the environmental or economic effectiveness of the implemented technology;
- increased public awareness of project and results;
- widespread adoption of the implemented technology;
- demonstration and deployment of zero and near-zero emission vehicles and engines; and/or
- emissions reductions along freight transportation corridors.

SUSTAINABILITY OF THE PROGRAM:

The Iowa DOT will identify the program beneficiaries selected for the 2020 DERA Program on their website within sixty days of a signed agreement. Announcements on the Iowa DOT website, as well as social media will serve as the required public notification. Information will include the amount of funding and a description of the vehicles and technologies being funded. The Iowa DOT will also include diesel exhaust reduction efforts in communications with the governor's office and state legislators.

Program beneficiaries will be asked to publicize the project and the need to reduce diesel emissions on their websites (and in other publications if they choose) to help increase the awareness among their stakeholders. Opportunities such as conferences, publications, and meetings provide an additional outreach mechanism for the Iowa DOT to communicate with their stakeholders and citizens.

BUDGET NARRATIVE

This section of the work plan should include a detailed itemized budget proposal (in addition to the Standard Form 424A), using the table below. Justify the expenses for each of the categories being performed within the grant/project period. Indicate which costs will be paid by the state's or territory's allocation from EPA (which would include the bonus match, if applicable) and which costs will be paid by the state's or territory's voluntary matching funds, if applicable.

Applicants must <u>itemize</u> costs related to personnel, fringe benefits, travel, equipment, supplies, contractual costs, other direct costs, indirect costs, and total costs. If the project budget includes any cost-share, mandatory or voluntary, the budget detail portion of the work plan must include a detailed description of how the applicant will obtain the cost-share and how the cost-share funding will be used. Applicants may not know the final projects at the time of submitting the application, but are encouraged to include a best estimate of the type and quantity of equipment impacted by the grant and the corresponding cost-shares.

If EPA accepts an offer for a voluntary cost-share, applicants must meet their sharing commitment in order to receive EPA funding. If the proposed cost-share is to be provided by a third-party, a letter of commitment is encouraged. Any form of cost-share included in the budget detail must also be included on the SF-424 and SF-424A.

Applicants should use the following instructions, budget category descriptions and example table to complete the budget detail section of the work plan. Detailed sample budgets representing various mandatory cost-share versus state voluntary match scenarios are available at: www.epa.gov/cleandiesel/clean-diesel-state-allocations.

2020 Itemized Project Budget

| Budget Category | EPA Allocation | Mandatory Cost-Share | Voluntary Match (if applicable) | | Time Total |
|--------------------------------------|-------------------|-------------------------|------------------------------------|-------------|------------|
| | | | VW Mitigation Trust Funds | Other Funds | Line Total |
| 1. Personnel | | | | | |
| 2. Fringe Benefits | | | | | |
| 3. Travel | | | | | |
| 4. Equipment | | | | | |
| 5. Supplies | | | | | |
| 6. Contractual | | | | | |
| 7. Other | \$503,349 | | \$335,566 | | \$838,915 |
| 8. Total Direct Charges (sum 1-7) | \$503,349 | | \$335,566 | | \$838,915 |
| 9. Indirect Charges | | | | | |
| 10. Total (Indirect + Direct) | \$503,349 | | \$335,566 | | \$838,915 |
| 11. Program Income | | | | | |

Explanation of Budget Framework

- Personnel None
- Fringe Benefits None
- Travel None
- Supplies None
- Equipment None
- Contractual None
- Other Funding will be provided to program beneficiaries to be used only for the purchase and installation of diesel emissions reduction strategy technologies (i.e. retrofit equipment, vehicle replacement, etc.). All program beneficiaries will be required to enter into a written agreement with the Iowa DOT.
- Indirect Charges None

• Administrative Costs Expense Cap

Iowa DOT has chosen to not use any of the DERA monies to cover administrative costs as identified in OMB Circular A-87 Appendix B (e.g. personnel, benefits, travel, supplies).

Matching Funds and Cost-Share Funds

Iowa DOT has chosen to use the Volkswagen Environmental Mitigation Trust Fund monies to match EPA's allocation. For all selected projects that require a cost-share (i.e. vehicle replacement), the project program beneficiary awarded funding will be responsible for meeting the minimum cost-share. Requirements for the cost-share will be identified in the written agreement between the project partner and the lowa DOT.

Funding Partnerships

The lowa DOT intends to provide participant support costs to program beneficiaries with eligible projects. Iowa DOT will grant one-time, lump-sum payments to fleet owners for the purchase and installation of eligible emission control technologies and vehicle replacements.

Eligible program beneficiaries will only receive reimbursement for up to the allowable costshare of eligible equipment and installation costs. A written agreement between the Iowa DOT and the program beneficiary will include the following:

- A description of the activities that will be eligible for reimbursement;
- Identification of which party will have the title to the equipment purchased (if any);
- A listing of the maximum amount to be paid from the grant; and
- a description of the source documentation requirements to ensure proper accounting of EPA funds.