

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary State of Arkansas

Lead Agency Authorized to Act on Behalf of the Beneficiary Arkansas Department of Energy and Environment (E&E), Division of Environmental Quality (DEQ)

| | |
|---|---|
| Action Title: | Class 4-7 Local Freight Trucks (Medium Trucks) |
| Beneficiary's Project ID: | Clean Fuels PY 4B |
| Funding Request No. | 19 |
| Request Type: (select one or more) | <input type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input checked="" type="checkbox"/> Other (specify): Reimbursement for program development administrative costs Advance funding for projects and DEQ program administration costs |
| Payment to be made to: (select one or more) | <input checked="" type="checkbox"/> Beneficiary <input checked="" type="checkbox"/> Other (specify): A funding request directing project-related costs to the disbursement sub-account for the Clean Fuels Program established with Wilmington Trust, per the WT Mitigation Arkansas Disbursing Agreement. Project-related costs will be directed to the project sponsor using the Payee Information Upload Template in accordance with the WT Mitigation Arkansas Disbursing Agreement |
| Funding Request & Direction (Attachment A) | Attached to this Certification To be Provided Separately |

SUMMARY

| | | |
|---|-------------------------|-----------------------------|
| <p>Eligible Mitigation Action <input checked="" type="checkbox"/> Appendix D-2 item (specify): <u>Item 6: Class 4-7 Local Freight Trucks</u> Action Type <input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal):</p> | | |
| <p>Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1): This Eligible Mitigation Action Certification (EMAC) implements the Arkansas Clean Fuels Funding Assistance Program described in section IV.E. of Arkansas's Beneficiary Mitigation Plan as revised</p> | | |
| <p>Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2): The table below represents the proposed project that DEQ during the Clean Fuels program year one. DEQ requests approval from the Trustee to replace the vehicles listed in the table below.</p> | | |
| Applicant | Proposed Vehicle | Proposed Replacement |

| | | |
|--------------------|---|----------------------------|
| City of Fort Smith | 1 2009 Diesel powered school Refuse Truck | 1 CNG powered Refuse truck |
|--------------------|---|----------------------------|

The vehicles to be replaced will be scrapped in accordance to the requirements of the Trust. All vehicles to be replaced pursuant to this Certification meet the requirements specified for Eligible Mitigation Action Unit 1.

The replacement projects will reduce emissions of nitrogen oxides and particulate matter from each vehicle lessening potential exposure of Arkansans to harmful air pollutants including ozone, fine particulate matter, and nitrogen dioxide.

DEQ will request reimbursement of eligible as expenses are directed to the applicant once the projects are completed and all required documentation has been submitted to DEQ.

DEQ will also submit a reimbursement request for personnel costs and fringe benefits associated with implementing the Clean Fuels Program. Administrative costs will not exceed 15% of the total cost the Clean Fuels Program.

Estimate of Anticipated NOx Reductions (5.2.3):

DEQ estimated anticipated NOx reductions from each of the selected projects using the AFLEET Heavy-Duty Vehicle Emission Calculator provided by Argonne National Laboratory <https://afleet-web.es.anl.gov/hdv-emissions-calculator/>

| Proposed projects | | | Replacement technology | | |
|--------------------|---------|---------|------------------------|-------|-------|
| City of Fort Smith | | | CNG | | |
| Powertrain | CO | NOx | PM10 | PM2.5 | VOC |
| Diesel | 625.32 | 1047.40 | 45.86 | 8.31 | 34.31 |
| CNG | 7128.63 | 52.37 | 45.86 | 8.31 | 15.89 |

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):

Arkansas Department of Finance and Administration

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

DEQ will post this EMAC minus Attachments A and D, as well as project application instructions for the program described in this EMAC to <https://www.ADEQ.state.ar.us/air/planning/vw.aspx>. DEQ will upload information including estimated emissions reductions, program implementation milestones, and project recipients and awards to the same web page.

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

A cost-share is required for all projects funded under the Clean Fuels program. The table below provides the funding assistance amounts and minimum cost-share for each organization and project type.

| Organization Type | Project Type | Maximum Funding Assistance (Percentage of Project Cost) | Minimum Mandatory Cost Share from Project Sponsor (Percentage of Project Cost) |
|-------------------|--------------|---|--|
| Government Owned | Replacement | 70% | 30% |

DEQ retains the right to partially fund proposals.

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

On February 28, 2018, DEQ provided notice to the US. Fish and Wildlife Service, U.S. National Park Service, and the U.S. Forest Service of Arkansas's designation as a Beneficiary under the Trust. These notices were sent to the email addresses listed in the Trust Agreement and included a letter from Stuart Spencer, Associate Director of the Office of Air Quality at DEQ, the Environmental Mitigation Trust Agreement for State Beneficiaries, the Notice of Beneficiary Designation, and the Amended D-3 Certification with Attachment. These federal land managers were also provided with a link to <https://www.ADEQ.state.ar.us/air/planning/vw.aspx>, where DEQ is posting information related to DEQ's implementation of Arkansas's beneficiary mitigation plan. These notifications have been posted to the web page.

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).

This mitigation action will provide the NOx emissions benefits outlined in 5.2.3. in areas in Pulaski County, which contain much of the Little Rock metropolitan area, parts of which contain communities that have historically borne a disproportionate share of the adverse impacts of such emissions.

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, the State of Arkansas, 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: 5/15/23



David Witherow, P.E.
Associate Director, Office of Air Quality

Arkansas Department of Energy and Environment
[LEAD AGENCY]

for

State of Arkansas
[BENEFICIARY]

ATTACHMENT B

CLEAN FUELS PROJECT MANAGEMENT PLAN

PROGRAM SCHEDULE AND MILESTONES

The Clean Fuels program was designed to be a four year program to provide funding assistance on a competitive basis for projects that reduce emissions by repowering or replacing eligible diesel vehicles with diesel, alternate-fueled (low NOx compressed natural gas, propane, or liquefied natural gas), or all-electric vehicle technologies. DEQ’s Clean Fuels Program year 4B received 3 proposals for eligible mitigation action Class 4-7 Local Freight Trucks (Medium Trucks). DEQ proposes to replace 1 diesel powered refuse truck with 1 Compressed Natural Gas (CNG) powered Refuse Truck.

| Milestone | Date |
|---|--|
| DEQ and Project Manager sign Memorandum of Agreement (MOA) specifying the terms of the project. | August, 2023 |
| Project Manager certifies project completion and provides required documentation to DEQ. | Within 6 Months of Signature of MOA Est. February 2024 unless more time is requested due to project requirements |
| DEQ completes review of Project Manager documentation and certifies payment direction to disbursing agent | Within 60 days of complete documentation receipt |
| Disbursing agent remits payment to project sponsor | Within 3 days of direction for payment |
| DEQ Reports Program Completion and expenditures to Trustee | Semi-Annual Report |

PROGRAM BUDGET

Cost-share requirements are specified in the Clean Fuels Program Beneficiary Eligible Mitigation Action Certification form. A total of \$332,450 has been allocated to the Clean Fuels Program year 4B, with an estimated \$332,450 to be awarded to program participants for completing projects.

| Period of Performance: Fall <u>2023</u> to Winter 2023/2025 | | |
|--|---|--|
| Budget Category | Share of Total Program Budget to be funded by the Trust | Estimated Cost-Share (Project Sponsor) |
| Program Participants Support | \$332,450 | \$142,484 |
| Administrative | \$0 | \$0 |
| Project Totals | \$332,450 | \$142,484 |

PROJECTED TRUST ALLOCATIONS:

The table below indicates anticipated funds to be drawn down from Arkansas’s allocation under the Trust for the Clean Fuels Program. The amounts in this table reflect only the portion of Arkansas’s allocation allotted to the Clean Fuels Program in the Arkansas Beneficiary Mitigation Plan. Because specific projects that will be awarded under this program will depend upon applications received, cost share and total project costs—which includes cost share—have not been included in the table below.

| Project Trust Allocations | 2023-24 |
|--|-----------------|
| 1. Anticipated Annual Project Funding Request to be paid through the Trust | \$332,450.00 |
| 2. Anticipated Annual Cost Share | \$142,484 |
| 3. Anticipated Total Project Funding by Year (line 1 plus line 2) | \$474,934.00 |
| 4. Cumulative Trustee Payments Requested to Date Against Cumulative Beneficiary Allocation (DERA Go RED! and Level 2 EVSE) | \$14,589,151.92 |
| 5. Current Beneficiary Project Funding to be Paid through Trust (line 1) | \$332,450.00 |

| | |
|---|-----------------|
| 6. Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (line 4 plus line 5) | \$14,921,601.92 |
| 7. Total Funding Allocated to Beneficiary | \$14,647,909.00 |
| 8. Trust funds interest accumulated to-date as of 10/31/22 | \$615,075.03 |
| 9. Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (Line 7 minus line 6 plus 8) | \$341,382.11 |

ATTACHMENT C

DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION

The Arkansas Department of Energy and Environment (E&E), Division of Environmental Quality (DEQ) will provide detailed reporting on the Clean Fuels Funding Assistance Program in two ways: 1) timely updates to DEQ's Volkswagen Mitigation Trust web page and 2) semiannual reporting to Wilmington Trust.

1. DEQ Volkswagen Mitigation Trust webpage

DEQ maintains a Volkswagen Mitigation Trust web page that has been designed to disseminate information regarding Arkansas's beneficiary mitigation plan and implementation of that plan. The web page is located at <https://www.ADEQ.state.ar.us/air/planning/vw.aspx>. Guidance on how to apply for reimbursement under the CLEAN FUELS Funding Assistance Program is accessible via this web page. DEQ will post the Eligible Mitigation Action Certification (EMAC) and Attachments B and C to this web page. DEQ will also upload information to this web page including estimated emission reductions, program implementation milestones, and project recipients and awards.

2. Semiannual reporting to Wilmington Trust

The State Beneficiary Trust Agreement establishes the following requirements for reporting for each Eligible Mitigation Action to the Trustee:

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.

DEQ has developed a report template for documenting implementation of the CLEAN FUELS Funding Assistance Program. This template includes information for each budget category, including:

- Mitigation Funds Expended for the Current Reporting Period
- Voluntary Additional Cost-Share Expended for the Current Reporting Period
- Cumulative Mitigation Funds Expended
- Cumulative Voluntary Additional Cost-Share Expended

In addition, the template asks the following questions that will be answered for each reporting period:

- What actual accomplishments occurred during the reporting period?
- Were funds awarded for any projects under the Eligible Mitigation Action Plan during the current reporting period? If so, list the recipients and how much funding they received.
- Provide a comparison of actual accomplishments with the anticipated outputs/outcomes and timelines/milestones specified in the Eligible Mitigation Action Management Plan.
- If anticipated outputs/outcomes and/or timelines/milestones are not met, why not? Did you encounter any problems during the reporting period which may interfere with meeting the project objectives?
- How do you propose to remedy any problems? Identify how and the date you will get back on course to meet the anticipated outputs/outcomes and/or timelines/milestones specified in the Eligible Mitigation Action Management Plan.
- If any cost-shares are reported for this Reporting Period in Table 1 above, identify the source of the funds.
- Did any public relations events regarding this program take place during the reporting period?
- What is the URL for the state website where members of the public can find information about implementation of this Eligible Mitigation Action?

The template will also include a section for inputting project-specific details including the following:

- Type of Project: Repower or Replacement
- Fleet Owner
- Primary Place of Performance
 - State,
 - County,
 - City,
 - ZIP Code
- Eligible Vehicle/Equipment Information
 - Vehicle Size Class
 - Vehicle Type
 - Vehicle Identification Number
 - Vehicle Make
 - Vehicle Model
 - Vehicle Model Year

- Engine Serial Number
- Engine Model Year
- Engine Horsepower
- Engine Fuel Type
- Annual Amount of Fuel Used
- Annual Miles Traveled
- Annual Idling Hours
- Remaining Life of Engine
- New Vehicle/Equipment Information
 - Fleet Owner
 - Primary Place of Performance
 - State,
 - County,
 - City,
 - ZIP Code
 - Vehicle Size Class
 - Vehicle Type
 - Vehicle Identification Number
 - Vehicle Make
 - Vehicle Model
 - Vehicle Model Year
 - Engine Serial Number
 - Engine Model Year
 - Engine Horsepower
 - Engine Fuel Type

Arkansas Clean Fuels Program

version 3.5

(Submission #: HPQ-3NTQ-Y1EC4, version 2)

Details

| | |
|----------------------------------|--|
| Submitted | 12/29/2022 (109 days ago) by Terry Rankin |
| Applicant | City of Fort Smith, Arkansas |
| Submission ID | HPQ-3NTQ-Y1EC4 |
| Submission Assigned Staff | Mikayla Shaddon |
| Status | Deemed Complete |
| Active Steps | Upon approval of the EMAC that includes this project by Trustee, upload approval documentation to "Documents & Attachments" for this submission. |

Form Input

Organization

Organization

Please provide the following information about the organization.

Organization Name

City of Fort Smith, Arkansas

Mailing Address - Line 1

5900 Commerce Road

Mailing Address - Line 2

NONE PROVIDED

City

Fort Smith

State

Arkansas

Zip Code

75916

County

Sebastian

Type of Organization

Local government

Describe the organization's size and type of work usually performed.

The City of Fort Smith is the third largest city in Arkansas and is one of two county seats in Sebastian County that represents a population of 89,142 (as reported in 2020). The city provides sanitation, water, street maintenance and repairs, transportation, fire protection and police services to nearly 300,000 residents near the Arkansas – Oklahoma border. Fort Smith has city departments that include city administration, the mayor's office, finance, building and permits, planning, and engineering.

The City of Fort Smith Department of Solid Waste Services Residential Division, which is the subject of this application, is responsible for garbage, recycle, yard waste, and bulky waste collection. The residential division is operating its 44-truck fleet 100% within the City's 64.6 square miles collecting roughly 30,000 tons of garbage annually, and 240,000 tons of recycle and yard waste.

Congressional District

If you do not know your congressional district, click on the Congressional Districts Map below. If the project location spans multiple congressional districts, select the district within which the majority of the project location sits.

[Congressional Districts Map](#)

Congressional District

Arkansas's 3rd Congressional District

Project Manager

Please provide the following information about the project manager.

Project Manager Contact Information

| | | |
|---------------------------------------|------------------|------------------|
| First Name | Last Name | |
| Terry | Rankin | |
| Title | | |
| Fleet and Grounds Maintenance Manager | | |
| Phone Type | Number | Extension |
| Business | 479-788-4144 | |
| Email | | |
| TRankin@fortsmithar.gov | | |
| Fax | | |
| NONE PROVIDED | | |

Signature Document

Please download the signature form, complete and sign the form, and then upload it below.

[Download Signature Form Here](#)

Signature

Cert of Arkansas CFP ePortal Submission - signed.pdf - 12/21/2022 06:00 PM

Comment

NONE PROVIDED

Programmatic Capability: Describe any past performance in successfully completing and managing projects similar in size, scope and relevance to the proposed project.

The City of Fort Worth was awarded funds through an EPA Grant in 2013 and a Federal Transit Administration (FTA) grant in 2019. The FTA funds were sourced from and administered by the state of Arkansas for the Fort Smith Transit Bi-Fuel Retrofit Project. Fort Smith used the funds to retrofit their fleet of 13 transit buses with Compressed Natural Gas (CNG) and gasoline bi-fuel engines. The project started in January 2019 and was completed in March 2020. CNG fueling station and infrastructure was built to support these vehicles, and in March 2022, CNG time and fast fill fueling stations were added to the city's transportation facility. The city ordered an additional six buses that arrived in August of 2022. In 2021, Arkansas Clean Fleet funds were awarded to support the cost of three CNG replacement refuse trucks, which are ordered and expected to be delivered Q1 2023 and ready to start fueling the sanitation department fleet.

Project Details (1 of 1)**Refuse Truck 2009; Replace**

Answer the following questions for the vehicle to be replaced or repowered. If you have multiple vehicles being replaced or repowered, click the "Add New Project Details" button

at the end of this section for each additional vehicle.

Vehicle Type

Refuse Truck

Describe how, when, and where the vehicle to be replaced/repowered is used.

Fort Smith's 44-truck sanitation fleet runs 6 days a week, 10 hours a day. Fort Smith seeks grant assistance to replace a 2010 Mack, LEU613 and purchase a replacement new alternative fuel technology refuse truck in 2023-2024. The truck is an automated side-loader, used 4 days/40 hours a week, running four routes a week for approx. 1,100 miles. If awarded this project, the truck will be scrapped as the Sanitation Department retires trash haulers on a 15-year fleet replacement cycle. These funds will allow the department to continue its transition to immediately purchase a Compressed Natural Gas (CNG) truck equipped with a near-zero, ultra-low NOx engine which is 90% lower than current emissions standards. Upon delivery, the new truck will be domiciled in the city's sanitation yard located at 5900 Commerce Road, Fort Smith and the old diesel truck will be scrapped.

Fort Smith's Sanitation Department's transition to 100% CNG refuse trucks is expected by the end of 2030.

Select the percentage of time the affected equipment will be operated in Arkansas.

100%

Acronyms

CNG: Compressed Natural Gas

LPG: Propane

EV: All-Electric

LNG: Liquefied Natural Gas

Project Type

Replace

Replace Type

Replace with CNG (including renewable landfill gas)

Vehicle Identification Number

1M2AV02C0AM004622

CORRECTION REQUEST (APPROVED)

Update VIN

Please review and update VIN.

Created on 12/28/2022 9:33 AM by **Mikayla Shaddon**

Existing Vehicle Make

MACK

Existing Vehicle Model

LEU 613

Engine Family Name (Also referred to as Emission Family by some manufacturers)

9VPTH10.8H03

Engine Serial Number

524570

Select the engine model year of the vehicle to be repowered or replaced. NOTE: The model year must be within the 1992-2009 range. If the selected date falls outside of that range, then the project is not eligible.

2009

Provide the annual miles of the vehicle to be repowered or replaced.

12440.45

Estimated Total Cost

Please provide estimates for the costs of the project and scrap value of the engine or vehicle to be replaced as indicated in the fields below.

Please provide a dollar value for the following fields without using symbols, such as the dollar sign (\$), periods (.), or commas (,). For example, the dollar value '\$2,000' should be written as '2000'.

This form will automatically calculate the estimated total cost of your project and the maximum potential funding assistance percentage for your project.

Estimated Invoice Cost of New Equipment (\$)

467675

CORRECTION REQUEST (APPROVED)**Please review estimated new equipment cost**

Please review new equipment cost and revise if needed or verify.
Created on 12/28/2022 10:06 AM by **Mikayla Shaddon**

1 COMMENT

Terry Rankin (trankin@fortsmithar.gov) (12/29/2022 3:07 PM)
this is correct for total body and chassis combined.

Estimated Delivery and/or Transportation Costs of the New Equipment (\$)

10404

CORRECTION REQUEST (APPROVED)**Please review delivery cost**

Please review delivery cost and revise if needed or verify.

Created on 12/28/2022 10:16 AM by **Mikayla Shaddon**

1 COMMENT

Terry Rankin (trankin@fortsmithar.gov) (12/29/2022 3:08 PM)

this is correct based upon our sales quote

Estimated Installation Costs, if applicable (\$)

0

Estimated Scrapage and Disposal Costs (\$)

0

Other Costs Related Directly to the Project (\$)

0

Sales Tax (\$)

0

Scrap Value (\$)

3145

Estimated Total Cost Per Vehicle (\$)

474934

Project Overview**Project Physical Location**

Please provide the street address and county of the project.

Project Address

5900 COMMERCE RD

FORT SMITH, AR 72916

County

Sebastian

Infrastructure Availability

[City of Fort Smith CNG Fueling Infrastructure.pdf - 12/27/2022 05:49 PM](#)

Comment

City of Fort Worth CNG Fueling Station with Time and Fast Fill Dispensers.

Total Number of Vehicles

1

Total Project Cost (\$)

474934

Maximum Funding Amount That Can Be Requested from DEQ (\$)

332453.8

Funding Amount Requested from DEQ (\$)

332450

CORRECTION REQUEST (APPROVED)
Review/revise if needed

Review and revise if needed if new equipment cost is updated above
 Created on 12/28/2022 10:11 AM by **Mikayla Shaddon**

1 COMMENT
Terry Rankin (trankin@fortsmithar.gov) (12/29/2022 3:10 PM)
 Revised to maximum funding amount that can be requested.

My Cost Share (\$)

142484

Project Milestones

Please provide estimated dates for completion of project milestones. Typical project steps have been included as defaults below. You can add or remove rows as needed.

| Project Step | Estimated Date (MM/DD/YY) |
|------------------------------------|----------------------------------|
| Solicit bids | 12/20/2022 |
| New equipment/vehicle(s) delivered | 3/1/2024 |
| Vehicle replaced/repowered | 3/1/2024 |
| Old equipment scrapped | 03/1/2024 |
| Final Reimbursement to Agency | 4/1/2024 |
| New Equipment Ordered upon award | 1/11/2023 |

CORRECTION REQUEST (APPROVED)**Please revise reimbursement request milestone date**

DEQ generally requests that reimbursement requests be made within 30 days of replacing/scraping completion.

Created on 12/28/2022 10:10 AM by **Mikayla Shaddon**

1 COMMENT

Terry Rankin (trankin@fortsmithar.gov) (12/29/2022 3:11 PM)

thank you and this has been revised/updated to meet the requirements of the DEQ.

Describe your approach to achieving project milestones.

As the City of Fort Smith Sanitation Department moves toward a footprint of 100% CNG/RNG, the department's Fleet and Grounds Maintenance Manager, Terry Rankin, is the primary contact qualified and responsible for managing this project.

Steps that will be taken to ensure the truck funded by this application achieves the milestones below:

- Upon award notification, an item to purchase equipment will be taken to the City of Fort Smith's Board of Director's for purchasing approval.
- Once approved, the truck dealer will be provided with PO for order processing.
- Once new equipment is received, invoice will be paid, and old equipment will be scrapped per grant guidelines.
- The City of Fort Smith will then provide all documentation and submit for reimbursement of awarded funds.
- Reports will be completed by appropriate deadlines.

Mr. Rankin and the Sanitation Department have a history of responsible grant award implementation and reporting. The City of Fort Smith has been awarded moneys through the EPA Grant in 2013 and FTA grants in 2019. Both grant programs were successfully implemented and completed according to the grants' requirements. The city was also awarded a 2021 Clean Fuels Program Grant that supported the three (3) new CNG trucks that will arrive at the beginning of 2023.

Project Benefits

Describe how this project will reduce environmental risks to economically-disadvantaged and other populations with disproportionately high and adverse human health or environmental impacts.

The exhaust compounded by constant idling from a diesel trash truck poses serious daily health risks, and the total fleet replacement to CNG/RNG clean fuel technology is a priority for Fort Smith to protect its residents and provide relief from harmful exhaust emissions. This project, along with the on-order 3 CNG refuse haulers, will reduce diesel emissions by early 2024, and benefit the entire city, most importantly in those areas considered to be economically-disadvantaged, including areas with sensitive receptor groups such as low-income, elementary schools, senior citizens, and hospitals. According to the EPA's Climate and Economic Justice Screening Tool, many census tracts in Fort Smith are considered disadvantaged, heavily multi-racial and several areas ranking 73rd percentile low income and/or reportedly have high reporting of cases of asthma.

This project will maintain alternative fuel technology efforts to achieve significant reductions in diesel emissions and decreases adverse exposure from on-road diesel equipment. CNG refuse haulers are also, on average, ten decibels quieter than diesel garbage trucks and will provide residents with a significant relief from noise pollution. Because this is a replacement project and not a retrofit, the community will benefit from the highest emission reduction values over the useful life of the new truck.

Describe how this project will reduce environmental risks to the public and sensitive populations.

The City of Fort Smith is not only in the refuse and recycling business, but we are also in the business of meeting the challenge of improving environmental air quality around the communities who are living, working, and playing along the weekly refuse routes. The Department of Sanitation has taken many steps in the past several years to reduce diesel emissions. For example, each truck is equipped with a 15-minute consistent idle timer to reduce idling hours. Routes are constantly examined for time and fuel savings, and recent re-routing of the recycling and yard waste collections resulted in the retirement of three HD, Class 8 trucks. Along the same lines, the Department's Landfill Division implemented new policies that resulted in a 40% reduction in the amount of dirt used in landfill maintenance, and a subsequent 40% reduction in Class 8 HD truck run time.

We are aware that refuse trucks deliver adverse pollutants at a much closer range and to the same populations every day while emitting more particulate matter (PM) and nitrogen oxides (NOx) than other heavy-duty trucks because of their continuous start and stop duty cycles, as well as idling times. Trash trucks tend to start and stop every 30' – 100' and stay in a certain area for long periods of time while they empty trash receptacles. Because of this, they emit more noxious fumes and pollutants into the air during the continuous acceleration and braking and idling times. By scrapping our existing diesel refuse trucks with every new CNG truck, the City of Fort Smith is partnering with Arkansas' DEQs priorities toward significant air quality benefits, especially those within low-income neighborhoods, which are generally most effected by the burden of pollution.

Describe how the project will contribute to the widespread adoption of alternative fuels and advance the establishment of alternative fuel corridors.

The commitment of the Sanitation Department to move toward 100% clean fuel technology will improve the City of Fort Smith's reputation and value as an innovative city working diligently to reduce both the environmental and adverse human health impacts of diesel pollutants. CNG offers the most reliable and cost-effective alternative to diesel and widespread adoption of any technology starts with a leader who is willing to step up to the plate and make the first move. Fort Smith has become that leader for both the city and the state of Arkansas with its commitment to alternative fuels and a carbon neutral footprint. Businesses and individuals will follow suit based on their positive outcomes.

The commitment to replace diesel refuse haulers with CNG will result in the following outcomes:

- Pollution and fuel reductions and cost effectiveness
- Improved ambient air quality and subsequent health benefits
- Reduced noise pollution
- Demonstration of near-zero emission vehicles and engines
- Increased public awareness of CNG alternative fuel technology

In addition, the Sanitation Department has augmented their current K-12 outreach and education materials to include information about recycling, sustainability, and the importance of alternative fuels like CNG/ RNG to the environment and our health. We offer the opportunity for students and teachers to visit the fueling station to better understand how our business runs behind the scenes, not just on the days our trucks operate on their trash day.

Attachments

| Date | Attachment Name | Context | User |
|--------------------|--|------------|--------------|
| 12/27/2022 5:49 PM | City of Fort Smith CNG Fueling Infrastructure.pdf | Attachment | Terry Rankin |
| 12/21/2022 6:00 PM | Cert of Arkansas CFP ePortal Submission - signed.pdf | Attachment | Terry Rankin |

Internal Data

| Label | Value |
|-------------------------------------|------------|
| Completeness Check | 01/03/2023 |
| Application Complete | Yes |
| Application Scored | 01/03/2023 |
| Application Score | 54.5 |
| Application Recommended for Funding | Yes |

| Label | Value |
|-------------------------------|-------|
| MOA Executed | |
| Reimbursement Packet Received | |
| Payment Sent | |

Status History

| | User | Processing Status |
|-----------------------|-----------------|-------------------|
| 12/29/2022 3:04:23 PM | Terry Rankin | Draft |
| 12/29/2022 3:21:59 PM | Terry Rankin | Submitting |
| 12/29/2022 3:22:02 PM | Terry Rankin | Submitted |
| 1/3/2023 8:55:30 AM | Mikayla Shaddon | Deemed Complete |

Audit

| Event | Event Description | Event By | Event Date |
|---------------------|---------------------|-----------------|---------------------|
| Submission Locked | Submission Locked | Mikayla Shaddon | 12/28/2022 7:55 AM |
| Submission Unlocked | Submission Unlocked | Mikayla Shaddon | 12/28/2022 10:17 AM |
| Submission Locked | Submission Locked | Mikayla Shaddon | 1/3/2023 8:50 AM |
| Submission Unlocked | Submission Unlocked | Mikayla Shaddon | 1/24/2023 1:41 PM |

Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|--|--------------------------|-----------------------|
| Submit Form | Terry Rankin | 12/29/2022 3:22:02 PM |
| Ensure that all steps have been assigned to the appropriate staff member | Mikayla Shaddon | 12/28/2022 7:54:53 AM |
| Set Submission Assigned Staff in Internal Controls | Mikayla Shaddon | 12/28/2022 7:54:46 AM |

| Step Name | Assigned To/Completed By | Date Completed |
|--|--------------------------|--------------------------|
| Select Begin Review to Lock the Submission | Mikayla Shaddon | 12/28/2022 7:55:07 AM |
| Application Completeness and Eligibility Review -If more information is needed or the project is ineligible, insert ineligible or incomplete work flow template between this step and the next step. If complete and eligible, proceed to the next step. | Mikayla Shaddon | 1/3/2023 8:55:30 AM |
| Score application using application evaluation criteria specified in the Applicant Guide | Mikayla Shaddon | 1/3/2023 11:35:23 AM |
| Add score to internal data | Mikayla Shaddon | 1/3/2023 11:35:28 AM |
| After reviewing all applications received, proceed with the next steps if this application is recommended for funding. Otherwise, delete remaining steps and insert "Not recommended" workflow. | Mikayla Shaddon | 3/20/2023 3:04:47 PM |
| Prepare EMAC; multiple projects of same EMA Type can be combined in single EMAC. Route EMAC via P&P Routing Form. | Deiona McKnight | 4/17/2023 3:23:41 PM |
| Notification of Award Recommendation | Mikayla Shaddon | 4/17/2023 3:25:16 PM |
| Upon approval of the EMAC that includes this project by Trustee, upload approval documentation to "Documents & Attachments" for this submission. | Deiona McKnight | |
| Prepare and route MOA and cover letter via P&P Routing Form | Mikayla Shaddon | |
| Attach MOA Signed by all parties to the Submission | Mikayla Shaddon | |
| Send MOA signed by all parties to the applicant. | Mikayla Shaddon | |
| Add MOA # to Internal Data | Mikayla Shaddon | |
| Change the Submission Status to "Issued" | Mikayla Shaddon | |

Revisions

| Revision | Revision Date | Revision By |
|-----------------|----------------------|--------------------|
| Revision 1 | 12/21/2022 5:54 PM | Terry Rankin |
| Revision 2 | 12/29/2022 3:04 PM | Terry Rankin |