## WITH THE EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

This Agreement No. 013-DMV-05/06-11 made and entered by and between the EL DORADO COUNTY AIR QUALITY MANAGEMENT DISTRICT, a county air quality management district formed pursuant to California Health and Safety Code section 40100, et seq. (hereinafter referred to as "DISTRICT"); and the EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION a political subdivision of the State of California (hereinafter referred to as "COUNTY");

## WITNESSETH:

WHEREAS, the California Clean Air Act requires local air pollution control districts to reduce emissions from motor vehicles; and

WHEREAS, AB 2766, codified in California Health and Safety Code section 44223, authorizes districts to impose a fee of up to four doilars upon certain registered motor vehicles within the district, and the Governing Board of the DISTRICT has imposed said fee; and

WHEREAS, said legislation requires the DISTRICT to use said funds for activities related to reducing air pollution from motor vehicles and for related planning, monitoring, enforcement, and technical studies necessary for the implementation of the California Clean Air Act of 1988; and

WHEREAS, COUNTY has proposed a project that meets the eligibility criteria of the DISTRICT and that has been approved by DISTRICT for funding; and

WHEREAS, UOUNTY represents that it is willing and able to perform the activities set forth herein.

NOW, THEREFORE, District and County mutually agree as follows:

## 1. PROJECT

COUNTY shall perform all activities and work necessary to complete the "Diesel Fleet Retrofits" project set forth in the fully described "Proposal" attached hereto and incorporated herein by this reference. COUNTY agrees to furnish all labor, materials, equipment, licenses, permits, fees, and other incidentals necessary to perform and complete, per schedule, in a professional manner, the services described herein. COUNTY represents that COUNTY has the expertise necessary to adequately perform the project specified in said Proposal.

In the event of any conflict between or among the terms and conditions of this Agreement, the Proposal incorporated herein, and the documents referred to and incorporated herein, such conflict shall be resolved by giving precedence in the following order of priority:

1. To the text of this Agreement;
2. Proposal to this Agreement; and
3. To the "Motor Vehicle Emission Reduction Projects Request for Proposals" (RFP) prepared by the DISTRICT and dated 2005-2006.

## 2. PERIOD OF PERFORMANCE/TIMETABLE

COUNTY shall commence performance of work and produce all work products in accordance with the Work Statement and deadlines for performance identified in the Proposal, Page 6, of this Agreement, unless this Agreement is
terminated sooner as provided for elsewhere in this Agreēment. This Agreement may be extended for one (1) additional year if mutually agreed between the parties hereto in writing not less than thirty (30) days prior to the expiration of the then current Agreement.

If requested by the DISTRICT, COUNTY shall submit regular progress reports, at intervals determined by the DISTRICT, detailing the work performed during the current reporting period; work planned for the next reporting period; problems identified, solved, and/or unresolved; and the percentage of each task completed. COUNTY shall provide DISTRICT with a comprehensive final written report prior to the end of Agreement term. Said final report shall be complete and shall document the work performed under this Agreement.

## 3. COMPENSATION

District will pay the County the sum of $\$ 487,076$ as follows:
COUNTY shall obtain through other sources sufficient additional monies to fund the total cost of the "Diesel Fleet Retrofits" project as outlined in the Proposal, Pages 1,5-1, and 7. Satisfactory written evidence of such funding commitments shall be provided to DISTRICT prior to the release by DISTRICT of any funds under this Agreement. In the event funding from other sources for the total cost of the project, as outlined in the Proposal, Pages 1,5-1, and 7, is not received by COUNTY, DISTRICT reserves the right to terminate or renegotiate this Agreement. In accordance with Section 44233 of the California Health and Safety Code, COUNTY agrees to limit expenditure of funds for the purpose of administration to not more than five percent of the monies distributed to COUNTY. The DISTRICT is not obligated to pay COUNTY for administrative costs exceeding five percent of the actual total cost of the project.

The total obligation of the DISTRICT under this Agreement SHALL NOT EXCEED Four Hundred Eighty Seven Thousand Seventy-Six Dollars and 00/100 $(\$ 487,076)$.
A. PAYMENTS: Advance payments shall not be permitted. Payments will be permitted only at which time equivalent services have been satisfactorily rendered. The DISTRICT shall reimburse COUNTY quarterly, in arrears, after receipt and verification submitted to El Dorado County Air Quality Management District, Attention: Marcella McTaggart. Payment shall be made to COUNTY by the DISTRICT upon submission and evaluation of the COUNTY'S invoice of claim. Said invoice of claim shall set forth the work completed of the "Diesel Fleet Retrofits" pursuant to this Agreement.

Upon receipt of proper documentation, and verification that COUNTY has satisfactorily completed the work for which compensation is sought, DISTRICT will issue payment to COUNTY within thirty (30) calendar days of such time.

The amount to be paid to COUNTY under this Agreement includes all sales and use taxes incurred pursuant to this Agreement, if any, including any such taxes due on equipment purchased by the COUNTY. The COUNTY shall not receive additional compensation for reimbursement of such taxes and shall not decrease work to compensate therefore.

Concurrently with the submission of any claim for payment, COUNTY shall certify (through copies of invoices issued, checks, receipts, and the like) that complete payment has been made to any and all subcontractors as provided.

It is understood that all expenses incidental to COUNTY'S performance of services under this Agreement shall be borne exclusively by COUNTY.

In no event snall compensation paid by the DISTRICT to the COUNTY for the performance of all services and activities under this Agreement exceed the amount set forth in paragraph 3 above.
B. Surplus Funds: Any compensation, which is not expended by COUNTY pursuant to the terms and, conditions of this Agreement by the project completion date shall automatically revert to the DISTRICT. Only expenditures incurred by the COUNTY in the direct performance of this Agreement will be reimbursed by the DISTRICT. Allowable expenditures under this Agreement are specifically established and included in the Proposal, Pages 1,5-1, and 7.
C. Closeout Period: All final claims shall be submitted by COUNTY within sixty (60) days following the final month of activities for which payment is claimed. No action will be taken by DISTRICT on claims submitted beyond the 60-day closeout period.

## 5. NON-ALLOCATION OF FUNDS

The terms of this Agreement and the services to be provided there under are contingent on the approval of funds by the appropriating government agency. Should sufficient funds not be allocated, the services provided may be modified or this Agreement terminated at any time by giving the COUNTY thirty (30) days prior written notice.

## 6. INDEPENDENT COUNTY LIABILITY

County is, and shall be at all times, deemed independent and shall be wholly responsible for the acts of County's employees, associates, and subcontractors, in connection with the installation, operation, use and maintenance of the "Diesel Fleet Retrofits."

## 7. TERMINATION

A. Breach of Agreement: The DISTRICT may immediately suspend or terminate this Agreement, in whole or in part, where in the determination of the DISTRICT there is:

1. An illegal or improper use of funds;
2. A failure to comply with any term of this Agreement;
3. A substantially incorrect or incomplete report submitted to the DISTRICT; or
4. Improperly performed services.

In no event shall any payment by the DISTRICT constitute a waiver by the DISTRICT of any breach of this Agreement or any default, which may then exist on the part of the COUNTY. Neither shall such payment impair or prejudice any remedy available to the DISTRICT with respect to the breach or default. The DISTRICT shall have the right to demand of the COUNTY the repayment to the DISTRICT of any funds disbursed to the COUNTY under this Agreement which in the judgment of the DISTRICT were not expended in accordance with the terms of this Agreement. The COUNTY shall promptly refund any such funds upon demand.

In addition to immediate suspension or termination, DISTRICT may impose any other remedies available at law, in equity, or otherwise specified in this Agreement.
B. Without Cause: Either party may terminate this Agreement at any time upon giving the other party at least thirty (30) days advance, written notice of intention to terminate. In such case, the COUNTY shall, subject to paragraph 3 , be paid the reasonable value of all services satisfactorily rendered and actual,
reasonable costs incurred up to the time of the termination. Upon such termination, all the work product produced by COUNTY shall be promptly delivered to the DISTRICT.

## 8. CHANGES TO AGREEMENT

This Agreement may be amended by mutual consent of the parties hereto. Said amendments shall become effective only when in writing and fully executed by duly authorized officers of the parties hereto.

## 9. INDEMNIFICATION

COUNTY shall defend, indemnify, and hold the District harmless against and from any and all claims, suits, losses, damages and liability for damages of every name, kind and description, including attorneys fees and costs incurred, brought for, or on account of, injuries to or death of any person, including but not limited to workers, District employees, and the public, or damage to property, or any economic or consequential losses, which are claimed to or in any way arise out of or are connected with the County's activities and work necessary to complete the "Diesel Fleet Retrofits." This duty of County to indemnify and save District harmless includes the duties to defend set forth in California Civil Code, Section 2778.

District shall indemnify COUNTY against and hold it harmless from any loss, damage, and liability for damages, including attorney fees and other costs of defense incurred by COUNTY, whether for damage to or loss of property, or injury to or death of COUNTY's officer's, agents, or employees which shall in any way arise out of or be connected with DISTRICT's performance of its obligations hereunder, unless such damage, loss, injury, or death shall be caused solely by the negligence of the COUNTY.

## 10. AUDITS AND INSPECTIONS

COUNTY shall at any time during regular business hours, and as often as DISTRICT may deem necessary, make available to DISTRICT for examination all of its records and data with respect to the matters covered by this Agreement. COUNTY shall, and upon request by DISTRICT, permit DISTRICT to audit and inspect all of such records and data necessary to ensure COUNTY'S compliance with the terms of this Agreement. COUNTY shall be subject to an audit by DISTRICT or its authorized representative to determine if the revenues received by COUNTY were spent for the reduction of pollution as provided in AB 2766 and to determine whether said funds were utilized as provided by law and this Agreement. If, after audit, DISTRICT makes a determination that funds provided COUNTY pursuant to this Agreement were not spent in conformance with this Agreement, or AB 2766 or any other applicable provisions of law, COUNTY agrees to immediately reimburse DISTRICT all funds determined to have been expended not in conformance with said provisions.

COUNTY shall retain all records and data for activities performed under this Agreement for at least three (3) years from the date of final payment under this Agreement or until all state and federal audits are completed for that fiscal year, whichever is later.

Because this Agreement exceeds Ten Thousand Dollars (\$10,000), COUNTY shall be subject to the examination and audit of the Auditor General for a period of three (3) years after final payment under Agreement (Government Code Section 10532).

## 11. NOTICES TO PARTIES

All notices to be given by the parties hereto shall be in writing and served by depositing same in the United States Post Office, postage prepaid and return receipt requested. Notices to District shall be in duplicate and addressed as follows:

## COUNTY

El Dorado County
Department of Transportation
2850 Fairlane Court
Placerville, CA 95667
Attn: Richard Shepard, Director

## DISTRICT

El Dorado County
Air Quality Management District 2850 Fairlane Court Placerville, CA 95667
Attn: Marcella McTaggart, Air Pollution Control Officer

## 12. TIME IS OF THE ESSENCE

It is understood that for COUNTY'S performance under this Agreement, time is of the essence. The parties reasonably anticipate that COUNTY will, to the reasonable satisfaction of the DISTRICT, complete all activities provided herein within the time schedule outlined in the Proposals to this Agreement, provided that COUNTY is not caused unreasonable delay in such performance.

## 13. COMPLIANCE WITH APPLICABLE LAWS

COUNTY will comply with all federal, State, and local laws and ordinances which are or may be applicable to the PROJECT to be undertaken by the COUNTY including but not limited to California Health and Safety Code sections 44220 et seq., all Air Resources Board and DISTRICT criteria thereunder, prevailing wage and work day definitions where applicable, contracting license requirements and permits.

## 14. NO THIRD-PARTY BENEFICIARIES

Nothing in this Agreement shall be construed to create any rights of any kind or nature in any other party not a named party to this Agreement.

## 15. VENUE

Any dispute resolution action arising out of this Agreement, including but no limited to litigation, mediation, or arbitration, shall be brought in El Dorado County, California, and shall be resolved in accordance with the laws of the State of California. County waives any removal rights it might have under Code of Civil Procedure section 394.

## 16. ENTIRE AGREEMENT

This document and the documents referred to herein or exhibits hereto are the entire Agreement between the parties and they incorporate or supersede all prior written or oral Agreements or understandings.

## 17. AGREEMENT ADMINISTRATOR

The County Officer or employee with responsibility for administration of this Agreement is Marcella McTaggart, Air Pollution Control Officer.

## 18. AUTHORIZED SIGNATURES

The parties to this Agreement represent that the undersigned individuals executing this Agreement on their respective behalf are fully authorized to do so by law or other appropriate instrument and to bind upon said parties to the obligations set forth herein.

## 19. PARTIAL INVALIDITY

If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will continue in full force and effect without being impaired or invalidated in any way.

## REQUESTING DEPARTMENT CONCURRENCE:



Air Pollution Control Officer

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the day and year first herein above written.

## COUNTY

EL DORADO COUNTY DEPT. OF TRANSPORTATION Date: $10 / 12105$


Richard Shepard,
Director of Transportation

## DISTRICT

EL DORADO COUNTY AIR QUALITY MANAGEMENT DISTRICT
Date: $\qquad$ By. Charlie Pain Charlie Paine, Chairman

Attest:
Cindy Keck, Clerk of the Board Date:


## PROPOSAL

## AGREEMENT NO. 013-DMV-05/06-11

# SUMMARY SHEET (Cover) 

| Applicant: | EI Dorado County Department of Transportation |
| :--- | :--- |
| Contact Person: | Elizabeth B. Diamond, Interim Director of Transportation |
| Address: | $\mathbf{2 8 5 0}$ Fairlane Court, Placerville, CA 95667 |
| Telephone \#: | (530) 621-5982 |


| Project Budget | AB 2766 Funds | \$ Matching Funds | In-Kind Match | Total Project Costs |
| ---: | :--- | :--- | :--- | :--- |
| Materials | $\$$ | $\$$ | $\$$ | $\$$ |
| Personnel | $\$$ | $\$$ | $\$$ | $\$$ |
| Other | $\$ 487,076$ | $\$ 162,358$ | $\$-0-$ | $\$ 649,434$ |
| TOTAL | $\$ 487,076$ | $\$ 162,358$ | $\$-0-$ | $\$ 649,434$ |


| Alternative <br> Project Budget | AB 2766 Funds | \$ Matching Funds | In-Kind Match | Total Project Costs |
| ---: | :--- | :--- | :--- | :--- |
| Materials | $\$$ | $\$$ | $\$$ | $\$$ |
| Personnel | $\$$ | $\$$ | $\$$ | $\$$ |
| Other | $\$ 343,818$ | $\$ 114,606$ | $\$$ | $\$ 458,424$ |
| TOTAL | $\$ 343,818$ | $\$ 114,606$ | $\$$ | $\$ 458,424$ |


| Estimated Emission Reductions/Cost-Effectiveness | As Proposed | Alternate <br> Funding Level |
| :--- | :---: | :---: |
| Useful Life of Project (years) | $\mathbf{1 2}$ |  |
| Total Lifetime Emissions Reduced (lbs. Of ROG, NOx, PM-10 | $\mathbf{4 4 , 6 0 4}$ | $\mathbf{4 0 , 8 8 2}$ |
| Cost-Effectiveness (total project costs divided by emissions $=\$ / \mathrm{b}$ ) | $\mathbf{1 0 . 9 2}$ | $\mathbf{8 . 4 1}$ |

## Brief Project Description:

Diesel fleets contribute significant amounts of harmful emissions, and these emissions can be reduced through the installation and proper use of pollution control technologies retrofitted on diesel vehicles. The El Dorado County Department of Transportation (DOT) has seventy (70) diesel fueled vehicles used for various functions in the road maintenance operation that would be eligible for such emission reduction modifications.

With the funding requested under the Project Budget section above, the Department proposes to retrofit thirty-four (34) vehicles. Under the Alternative Project Budget, the Department proposes to retrofit twenty-four (24) vehicles.

## REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Applicant: El Dorado County, Department of Transportation
Please complete and attach this checklist with your application.
D Summary Sheet (Cover) - page $\qquad$ 1 $\qquad$
Request for Proposal Contents Checklist (Second Page) - page $\qquad$ 2
$\square$ Authorization Letter/Resolution page $\qquad$ 3 $\qquad$
$\square$ Project Description - page $\qquad$ 4
[] Project Organization/Background - page $\qquad$ 4 $\qquad$
$\square$ Emission Benefits/Cost Effectiveness - page $\qquad$ $5 \& 5-1$ $\qquad$
$\square$ Work Statement - page $\qquad$ 6 $\qquad$

T Funding Request/Cost Breakdown - page $\qquad$ 7 $\qquad$

D Matching Funds - page $\qquad$ 7

S Schedule of Deliveries/Self-Monitoring Program - page $\qquad$ 7

L Local TPA Review (When Applicable) - page $\qquad$ N/A $\qquad$

D 3 Copies of Proposal - page $\qquad$ attached $\qquad$
$\square$ Letter of Commitment for matching funds - page $\qquad$ 8 \& 9 $\qquad$
$\square$ Vendor Qualifications - page $\qquad$ 10 $\qquad$

# RESOLUTION NO. $133-2005$ <br> OF THE BOARD OF SUPERVISORS OF THE COUNTY OF EL DORADO 

## RESOLUTION AUTHORIZING THE APPLICATION FOR AB2766 DMV SURCHARGE FUNDS THROUGH THE EL DORADO COUNTY AIR POLLUTION CONTROL DISTRICT

WHEREAS, the County of EI Dorado, through the Air Pollution Control District has AB2766 DMV Surcharge funds available for motor vehicle emissions reduction projects; and

WHEREAS, said procedures and criteria established by the Air Pollution Control District require a resolution authorizing the application by the applicant's governing body before submission of said application; and

WHEREAS, El Dorado County desires to obtain funding for re-powering of on-road diesel fueled vehicles used for road maintenance functions in order to reduce air pollution emissions produced by such vehicles;

NOW THEREFORE, BE IT RESOLVED, that the El Dorado County Board of Supervisors hereby:

1. Authorizes the filing of an application for the AB2766 DMV Surcharge Funds; and
2. Appoints the Interim Director of the Department of Transportation to execute all grant application documents and act as the County's agent for this project; and
3. Will give the Air Pollution Control District representative access to and the right to examine all records, books, papers or documents related to the transportation activity; and
4. Will cause work on the project to be commenced within a reasonable time after receipt of notification from the Air Pollution Control District that funds have been approved and that the project will be carried to completion with reasonable diligence.

PASSED AND ADOPTED by the Board of Supervisors of the County of EIDorado at a regular meeting of said
Board, held on the $\qquad$ day of $\qquad$ 2005, by the following vote of said Board:

Ayes: DUPRAY, BAUMANN, SWEENEY, PAINE, SOLARO
ATTEST
GINDY KECK
Clerk of the Board of Superkisors
1 CERTIFY THAT:
the foregoing instrument is a correct copy of the original on file in this office.
DATE
ATTEST: CINDY KECK, Clerk of the Board of Supervisors of the County of EI Dorado, State of California
By $\qquad$

## Project Description

The Department of Transportation operates seventy (70) diesel powered on-road vehicles in the course of maintaining existing roads. These vehicles include pick up trucks, dump trucks, service trucks, water trucks, graders, loaders, rollers, sweepers, pavers, and a paint striper. Diesel fleets contribute significant amounts of harmful emissions, and these emissions can be reduced through the installation and proper use of pollution control technologies retrofitted on diesel vehicles or through engine replacements. The objective of the proposed project is to retrofit on-road diesel fueled vehicles in order to reduce the nitrogen oxides (NOx) and particulate matter (PM10) emitted by these vehicles.

If this application is successful, the funding under the Project Budget will allow the Department to retrofit engines for thirty-four (34) of the seventy (70) diesel powered on-road vehicles over a one year period. Under the Alternative Project Budget the Department will retrofit twenty-four (24) of the seventy (70) diesel powered on-road vehicles in our fleet during the same period. The vehicles included in the Alternative Project Budget provide greater emissions reduction because they are older, less efficient vehicles and/or those that travel the greatest number of miles per year.

## Project Organization/Background

The Department of Transportation provides a variety of transportation services to the West Slope of the County as well as the Tahoe Basin. Approximately 150,000 people are serviced on the over 1,000 maintained road miles. With an annual budget of $\$ 62.9$ million, the Department is able to maintain existing roads; design and construct new roads and erosion control projects; provide transit services in South Lake Tahoe; provide services to special districts; and integrate long term transportation planning with the goals and plans of adjacent cities such as Placerville and South Lake Tahoe, as well as the neighboring counties of Sacramento, Placer, and Amador.

The Maintenance Division of the Department of Transportation is responsible for the maintenance of existing roads and has units responsible for traffic operations, and bridge, road and equipment maintenance for the West Slope and Tahoe Basin. The equipment shop has skilled mechanics responsible for repair and maintenance of the fleet of vehicles used in the road operations; however, an outside vendor will be used to complete the project of retrofitting onroad diesel powered vehicles to ensure that sufficient resources are allocated to this project. The Department has interviewed four vendors with the expertise and equipment to re-power or retrofit the diesel fueled equipment. The following criteria were used to select vendors to interview for the project:
$>$ Technology must be verified by the California Air Resources Board.
$>$ Technology must reduce nitrogen oxides (NOx) and particulate matter (PM10).
$>$ Vendor must posses the expertise, staff and equipment necessary to perform the work within the prescribed time period.
$>$ Vendor must have experience in completing similar projects.
Based on the above listed criteria, the product selected for the project is the Cleaire Longview system. The technology used by this system reduces NOx in addition to PM10, providing the greatest long term benefit and emission reduction. The contractor selected to install the product is Cummins-West, the regional distributor for the Cleaire product in this area.

## EMISSION BENEFITS/COST EFFECTIVENESS

The cost effectiveness calculation for the proposed Project Budget is provided in Page 5-1 included with this proposal. The cost effectiveness calculation for the Alternative Project Budget is provided in page $5-2$ included with this proposal.

Under the proposed Project Budget, a total of thirty-four (34) on-road diesel fueled vehicles would be modified to reduce NOx and PM10. The clean air funding dollars contributed total $\$ 487,076$, with matching funds of $\$ 162,358$ contributed by the Road Fund. Retrofitting these vehicles would result in NOx emissions reduction of 3,757 pounds per year and a reduction of PM10 of 703 pounds per year. The cost per pound of emissions reduction for the total proposed project would be $\$ 10.92$.

Under the Alternative Project Budget, a total of twenty-four (24) diesel fueled vehicles would be modified to reduce NOx and PM10. The clean air funding dollars contributed total $\$ 343,818$, with matching funds of $\$ 114,606$ contributed by the Road Fund. Retrofitting these vehicles would result in NOx emissions reduction of 3,480 pounds per year and a reduction of PM10 of 609 pounds per year. The cost per pound of emissions reduction for the total alternative project would be $\$ 8.41$.

 Calculation of cost effectiveness based on total project cost and total emisslons reduction
$(.10 \times \$ 487,076)(3756.81+703.14)=\$ 10.82$ cost per pound reduced $\stackrel{\text { s.ino }}{\text { s.en }}$


Z-g afed







## WORK STATEMENT

The table below provides a schedule for the proposed work assuming a total of thirty-four 34 vehicles are retrofitted within a one year period. The schedule allows for removal of equipment at a rate that will not effect road maintenance operations.

| Description of Work | Time frame | \# of units <br> completed | Estimated <br> time period <br> for <br> preparation | Contract <br> period |
| :--- | :--- | :---: | :---: | :--- |
| Execution of grant documents. Contract <br> for installation of systems including, <br> review by County Counsel and Risk <br> Management Board of Supervisors <br> approval. |  <br> September | 0 | 2 months |  |
| Beginning of contract period. <br> Remove 4 units of equipment from <br> operation each month. | October - <br> December | 12 |  | 3 month |
| Remove 4 units of equipment from <br> operation each month. |  <br> February | 8 |  | 2 months |
| Sweepers and PB Patchers. | March \& April | 4 |  | 2 months |
| Remove 4 units of equipment from <br> operation in March and April and 2 units <br> in May. | May-July | 10 |  | 3 months |
| 2 montbs to complete any unfinished <br> items, resolve any issues. |  <br> September | 0 |  | 2 months |
| Totals | 34 |  | $\mathbf{1 2}$ months |  |

The Department will acknowledge receipt of AB2766 DMV Surcharge Funding for this project in two ways. First, each retrofitted unit of diesel fueled equipment for which AB2766 DMV Surcharge funding was received will have a decal affixed in a prominent location on the vehicle. In addition, a brief presentation regarding the emissions reductions and related benefits made possible by the AB2766 DMV Surcharge Funding will be made to the El Dorado County Board of Supervisors at the time the grant contract is submitted for approval.

## Funding Request/Breakdown of Cost

Page 5-1, included with this proposal, provides a list of thirty-four (34) on-road diesel fueled vehicles that would be eligible for the emissions reduction retrofit. Included in this summary is the total cost, amount of the matching funds and AB2766 DMV Surcharge Funding request for each piece of equipment and in total for the proposed project. The total cost under this proposal is $\$ 649,434$, with $\$ 487,076$ in AB2766 DMV Surcharge funds being requested and the match of $\$ 162,358$ to be provided by the Road Fund. The total project cost of $\$ 649,434$ or $\$ 19,101$ per unit includes only the purchase and installation of the Cleaire Longview system and no other costs related to the equipment.

Page 5-2, also included with this proposal, provides a list of twenty-four (24) on-road diesel fueled vehicles that would be eligible for the emissions reduction retrofit. Under the alternative project, newer equipment (model year 2004) and those that are driven fewer than 10,000 miles per year have been eliminated. This list provides the Department of Transportation vehicles that, when retrofitted, will provide the greatest benefit through the most significant emissions reductions. The total Alternative Project cost under this proposal is $\$ 458,424$, with $\$ 343,818$ in AB2766 DMV Surcharge funds being requested and the match of $\$ 114,606$ being provided by the Road Fund. The total Alternative Project cost of $\$ 458,424$ or $\$ 19,101$ per unit includes only the purchase and installation of the Cleaire Longview system and no other costs related to the equipment.

## Matching Funds

Matching Funds will be provided by the El Dorado County Road Fund and are included in the fiscal year 05-06 budget submitted to the Chief Administrative Officer. The funding will be available on July 1, 2005. Page 9 to this proposal is a letter stating that matching funds from the Road Fund are budgeted and will be available July, 12005.

## Schedule of Deliverables/Monitoring Program

The Department of Transportation Project Supervisor will be Dennis Milligin, Equipment Superintendent. All communications with the contractor throughout the project will be handled by the Project Supervisor.

Deliverables will be specified by the County for each individual vehicle, and specific task assignments and work requirements will apply to each installation. Failure to submit the requested deliverables as specified will be grounds for termination of the Agreement. When a vehicle retrofit is complete, an inspection of the installation will take place and a Punch List will be generated of all non-compliant work. All issues will be resolved prior to acceptance of the work. Upon completion, and acceptance an invoice will be issued in accordance with the provisions of the contract.

The Project Supervisor will prepare a quarterly report stating the number of vehicles scheduled for retrofitting, the number completed and the number projected for the next quarter. In the event the work is not being accomplished according to the work statement provided in this proposal, the Project Supervisor will provide an explanation and the action required to meet the proposed schedule.

## Letter of Commitment for Matching Funds

ELIZABETH B. DIAMOND
Interim Director of Transportation
Internet Web Site:
http://co.el-dorado.ca.us/dot

MAIN OFFICE:

June 2, 2005

Warren Hawkins
El Dorado County Air Quality Management District 2850 Fairlane Court
Placerville, CA 95667

Dear Mr. Hawkins:

## Subject: Matching Funds - Request for Proposal El Dorado County Air Quality Management District Motor Vehicle Emission Reduction Projects

The Department of Transportation is submitting an application for DMV Surcharge Funds, AB2766, to retrofit various diesel fueled vehicles. The matching funds included in the Department's Request for Proposal is derived from available Road Fund discretionary monies. Matching funds of $\$ 162,358$ is included in the fiscal year 2005/2006 Road Fund budget. The budget has been submitted to the Chief Administrative Officer and will be presented to the El Dorado County Board of Supervisors on June 14, 2005. The matching funds will be available July 1, 2005.

If you have any questions, please contact me at (530) 621-5934.

Sincerely,


Ruth Young


Transportation Fiscal Services Manager
RY:ms

## VENDOR'S QUALIFICATIONS

This provides a list of the vendor's qualifications and the specifications for the Cleaire Longview system.

| Founded | 1934 (The original company name was Watkins and Meehan) |
| :---: | :---: |
| Ownership | Cummins West Inc. is a privately held company. |
| Locations | Cummins West is headquartered in San Leandro, California with branch offices in Arcata, Redding, Sacramento, Stockton, Fresno and Bakersfield, California and Honolulu, Hawaii. |
| People | Cummins West has 350 employees with core competencies in: <br> - Highly skilled master technicians trained in diesel engine service, diagnosis, repair, maintenance and upgrades; <br> - Customer oriented, well trained staff located at six major diesel repair facilities in Northern California and one major facility in Hawaii; (the location in Stockton does not include a major repair facility); <br> - Well staffed and stocked product inventory and distribution system; <br> - Highly trained and competent customer support staff to address sales, service and warranty support. |
| Technologies | Cummins West is Certified to rent, sell, warrant and maintain: <br> - Cummins Engine Company products; <br> - Komatsu Heavy Equipment Company products; <br> - Cleaire Advanced Emission Controls products. |
| Management | - Kevin Shanahan, President and CEO <br> - Paul Bleeker, Vice-President and COO <br> - Michael Doherty, Vice-President and CFO |

```
Cummins West, Inc.
    14775 Wicks Blvd.
    San Leandro, CA 94577-6779
    (510) 351-6101 Fax (510) 357-3432
```

Retrofit Accomplishments

CARB Flash \& Match Program:
Under a contract with the California Air Resources Board, Cummins West installed exhaust retrofit systems on 658 heavy-duty, private company line-haul trucks. Cummins West completed all installations within three months.

## Bay Area Transit Retrofits:

The Metropolitan Transportation Commissions has awarded funds to seven transit districts in the Bay Area to install exhaust retrofit systems on over 1,500 diesel buses. Over 500 units have been installed to date. Cummins West has performed the majority of these installations and has trained staff at one transit property to perform their own installations.

## Bay Area AQMD Transportation Funds for Clean Air Solid Waste Collection

 Vehicle program:Bay Area Air Quality Management District has awarded funds to 19 cities in the Bay Area to install Cleaire exhaust retrofit systems on 259 solid waste collection vehicles. Cummins West has installed 54 units to date.

## California Department of Transportation:

Caltrans has proactively purchased over 130 Cleaire exhaust retrofit systems.
Cummins West has done all Caltrans installations.
Sacramento Municipal Utility District:
SMUD has proactively purchased over 40 Cleaire exhaust retrofit systems and is currently using a Cleaire filter cleaning machine. Cummins West has done all SMUD installations.
Auburn/Placer Disposal:
24 approved, 14 installed, funded by Placer APCD City of Roseville:
24 approved, 14 installed, funded by Placer APCD
Vacaville Sanitary Disposal:
14 approved, 7 installed, funded by Yolo/Solano AQMD

## LongView ${ }^{\circledR}$

The Cleaire Longview ${ }^{\circledR}$ is a cost-effective system that reduces NOx and PM emissions from in-use diesel engines.

The Longview integrates a NOx reducing catalyst (NRC) and a catalyzed diesel particulate filter (DPF) to provide simultaneous control of NOX, PM, HC, and CO emissions. The Longview is a muffler replacement unit with a modular design that facilitates installation and maintenance.

## Product Applications

Longview systems are in service on a wide variety of applications, including transit buses, dump trucks, and refuse haulers. The Longview is CARB verified for on-road use across multiple engine makes and models. Check with your Cleaire distributor for the most current list of verified engines'and applications.

## Synergy through Chemistry

The NRC uses diesel fuel as a reducing agent to catalytically remove NOx from the exhaust stream. The DPF then reduces PM, HC, and CO. Emission reductions depend on engine and duty cycle, but typically the Longview reduces NOx by 25\% and PM by $85 \%$.


The combination of NRC + DPF offers emission benefits with minimal impact on the engine operator. The use of diesel fuel as a reducing agent promotes NOx reductions without causing power loss, requiring a separate chemical reagent (such as urea), or adding exhaust gas recirculation.


The Longview system is managed by the MLC ${ }^{\circledR}$, a proprietary controller that determines the precise amount of diesel fuel to inject. Diesel fuel is drawn from the vehicle fuel supply, pressurized, filtered, and sent to a cooled fuel injector mounted on the exhaust pipe. The injected diesel fuel and exhaust gases react on the NRC to remove NOx.

These reactions also release heat, increasing the oxidation rate of PM inside the DPF. This facilitates DPF regeneration, which in turn keeps backpressure at acceptable levels. This catalyzed DPF also eliminates any unreacted diesel fuel. Cleaire uses a rugged silicon carbide DPF for enhanced durability.

## The Path is Cleaire

The Cleaire Longview is a retrofit system designed to address the business needs of diesel engine operators and the environmental needs of our community. NOx and PM reductions are achieved at typical operating conditions. The Longview is a cost-effective system providing a diesel retrofit solution.

Contact: 1-800-308-2111
Www.cleaire.com

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Optional end cones (std pipe size, slip-fit, or custom)


## cleaire

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