Applicant Information

Organization/ Applicant Name	FirstName	LastName	JobTitle	Address	City	State	Email Address	ZipCode	OfficePhone	OfficePhone Ext

Project 1 Information

	Organization Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

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Information:																													
						Curren	t Vehicle Inform	ation													Ne	ew Vehicle/Tech	nology Informa	tion					
Vehicle Type	TargetFleet		Serial and/or VIN # of engine and/or vehicle	Engine Model	Engine Family Name (If unregulated, then	Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx		Fuel Used	Annual Miles per vehicle	Annual Usage Rate (Hours per engine) (Nonroad)	Idling Hours (per	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Mode	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)		Displacement pe Cylinder (Liters)	replacements/	New Standard Level fo		Annual Idling Hours Reduced (per engine)	Technology	
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Project 2 Information

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 2 Information

							Current	Vehicle Inform	ation										Ne	w Vehicle/Tech	nology Informa	tion				
Vehicle Type	TargetFleet	Class/ e	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then NA)	Engine Model Year	Horsepower	Displacement per C Cylinder (Liters)	Current Standard Level for PM and NOx or NMHC+NOx		Annual Miles	Idling	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	(Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)		Displacement pe Cylinder (Liters)	replacements/	New Standard Level fo PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology	Technolog Unit gy Installatio st Cost
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Project 3 Information

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 3 Information:

							Curre	nt Vehicle Inform	nation													Ne	w Vehicle/Tech	nology Informa	tion					
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or	Engine Mak	e Engine Model	Engine Family Name (If unregulated, then	Engine Model Year	Horsenower	Displacement per	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx		Amount of Fuel Used	Annual Miles per vehicle	Annual Usage Rate (Hours per engine)		Year of Retrofit	Technology Type	Technology Make	Verified	New Engine Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/	New Engine Horsepower (Replacements/ Repowers)	New Engine Displacement pe Cylinder (Liters) (Replacements/	New Tier Level (Nonroad replacements/ Repowers/ Upgrades)	New Standard Level for PM and NOx or NMHC+NOx	New Fuel	Annual Idling Hours Reduced	Technology	Technology Unit Installation Cost
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Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Fleet Description

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Copy and paste additional lines as necessary to capture project fleet information.

Project 4

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 4 Information:

							Curren	t Vehicle Inform	ation												Ne	w Vehicle/Tech	nology Informa	tion				
Vehicle T	pe TargetFl	Class/ e	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then E NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx		Annual Miles per vehicle	Annual Usage Rate (Hours per engine) (Nonroad)	Idling Hours (per	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)		Displacement pe Cylinder (Liters)	replacements/	New Standard Level for	Annual Idling Hours Reduced (per engine)	Technology	Technology Unit Installation Cost
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Project 5 Information

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 5

Information:																									
						Curren	t Vehicle Inform	ation											Ne	w Vehicle/Tech	nology Informat	ion			
Vehicle Type	TargetFleet	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then I NA)	Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level (Nonroad)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)	Annual Usage Rate (Hours per engine) (Nonroad)	Idling	Year of Retrofit Action	Technology Type	Verified Technology Mode	New Engine Family Name (Replacements Repowers)			Displacement per Cylinder (Liters)	replacements/	New Standard Level for PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology Unit Installation Cost
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Copy and paste additional lines as necessary to capture project fleet information.

Applicant Information

Organization/										OfficePhoneE
Applicant Name	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	xt

Project 1 Information

	Organization									Additional	
	Performing		Number of					Funding	Additional	Funding	
ProjectName	Project	TargetFleet	Vehicles	City	County	State	Region	Amount	Funding Source	Amount	Public Benefit
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Fleet 1 Information for MARINE VESSELS ONLY

							Current Ves	sel Informatio	n										New	Vessel/Technol	ogy Information						/
Sector	Application	Boat Name or Other Identifier	Engine Type	Serial # of Engine	Engine Make	Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Current Tier	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fuel Used (gal/year)		Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/	New Engine	New Engine Displacement per Cylinder (Liters)	New Tier Leve (Replacements Repowers/	Level for PM	New Fuel	Annual Idling Hours Reduced (per Toengine)	echnology T Unit Cost Ir	Fechnology Un
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Project 2 Information

	Organization									Additional	
	Performing		Number of					Funding	Additional	Funding	
ProjectName	Project	TargetFleet	Vehicles	City	County	State	Region	Amount	Funding Source	Amount	Public Benefit
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Fleet 2 Information for MARINE VESSELS ONLY

						Current Vess	sel Informatio	n												New	Vessel/Technol	ogy Information				
Sector	Application	Boat Name or Other Identifie		Serial # of Engine	e Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fue Used (gal/year	Annual Usage Rate (Hours per engine)	Hours (per	Year of Retrofit	: Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)	Horsepower	New Engine Displacement pe Cylinder (Liters) (Replacements/ Repowers)	(Replacements	Level for PM	Annual Idling Hours Reduced (per engine)	Technology U
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Copy and paste additional lines as necessary to capture project fleet information.

Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Instructions

The following instructions explain how to fill out the Fleet Description tab and the Marine Vessels tab.

Each tab is divided into three sections: Recipient Information, Project Information, and Fleet Information.

Below is an explanation of each field.

For an example of how the Applicant Fleet Description spreadsheet should be filled out, please refer to the tab labeled 'Example'.

Applicant Information should only be filled out only once.

Project Information and Fleet Information should be filled out for each separate "project" within the proposal.

Separate projects are generally defined as separate subgrants to various entities, or separate, distinct target fleets within the grant or subgrants.

Fleet Information should be cumulative, and include all affected engines, vehicles, and retrofits proposed as part of the project.

Applicant Information

Organization/ Applicant Name- Enter the name of the organization applying for the grant from EPA (regardless of who actually uses the funds).

First Name- Enter the FIRST name of the contact person for the application.

Last Name- Enter the LAST name of the contact person for the application.

Job Title- Enter the Job Title of the contact person for the application.

Email Address- Enter the email address of the contact person for the application.

Address- Enter the address of the contact person for the application.

City- Enter the city of the contact person for the application.

State- Enter the two letter postal code of the contact person for the application.

Zip Code- Enter the zip code of the contact person for the application.

Office Phone- Enter the phone number of the contact person for the application.

OfficePhoneExt- Enter the extension of the contact person for the application (if applicable).

Project Information

Project Name- Enter the name of the project (try to include both the Organization Name and Fleet(s)).

Organization Performing Project- Enter the name of the organization performing the project (this could be the Prime Organization/Applicant or a Subgrantee).

Target Fleet- Select from the dropdown menu provided the target fleet to be addressed.

Number of Vehicles- Enter the number of vehicles to be addressed.

City- Enter the city in which the project will take place.

County- Enter the county in which the project will take place.

State- Enter the two letter postal code for the state in which the project will take place.

Funding Amount - Enter the total amount of Federal funds to be committed to the project

Additional Funding Source- If there are to be matching funds, enter the source.

Additional Funding Amount- Enter the amount of funds provided.

Public Benefit - If the vehicles are part of a public fleet or benefit the public (i.e. drayage vehicles that serve a port; private construction equipment contracted to a public works project, etc) enter "yes", otherwise enter "no".

Fleet Information

Vehicles can be combined on one line if all the information is the same. Please see the Example tab.

Vehicle Type- Enter the vehicle type, either "On Highway" "NonRoad".

Target Fleet- Select the target fleet from the dropdown menu.

Class/Equipment- Select from the dropdown menu the Vehicle Class or type of nonroad equipment.

Serial/VIN # Enter the Serial number or VIN number of the engine or vehicle

Engine Make- Enter the manufacturer of the exisiting Engine.

Engine Model- Enter the model of the exisiting Engine.

Engine Family Name- Enter the Engine Family name of the existing Engine. NOTE: unregulated engines will not have an Engine Family Name.

Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Fleet Description

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Copy and paste additional lines as necessary to capture project fleet information.

Project 4

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 4 Information:

							Curren	t Vehicle Inform	ation												Ne	w Vehicle/Tech	nology Informa	tion				
Vehicle T	pe TargetFl	Class/ e	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then E NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx		Annual Miles per vehicle	Annual Usage Rate (Hours per engine) (Nonroad)	Idling Hours (per	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)		Displacement pe Cylinder (Liters)	replacements/	New Standard Level for	Annual Idling Hours Reduced (per engine)	Technology	Technology Unit Installation Cost
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Copy and paste additional lines as necessary to capture project fleet information.

Project 5 Information

	Organization										
	Performing		Number of						Additional	Additional	
Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 5

Information:																									
						Curren	t Vehicle Inform	ation											Ne	w Vehicle/Tech	nology Informat	ion			
Vehicle Type	TargetFleet	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then I NA)	Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level (Nonroad)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)	Annual Usage Rate (Hours per engine) (Nonroad)	Idling	Year of Retrofit Action	Technology Type	Verified Technology Mode	New Engine Family Name (Replacements Repowers)			Displacement per Cylinder (Liters)	replacements/	New Standard Level for PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology Unit Installation Cost
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Copy and paste additional lines as necessary to capture project fleet information.

Applicant Information

Organization/										OfficePhoneE
Applicant Name	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	xt

Project 1 Information

	Organization									Additional	
	Performing		Number of					Funding	Additional	Funding	
ProjectName	Project	TargetFleet	Vehicles	City	County	State	Region	Amount	Funding Source	Amount	Public Benefit
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Fleet 1 Information for MARINE VESSELS ONLY

							Current Ves	sel Informatio	n										New	Vessel/Technol	ogy Information						/
Sector	Application	Boat Name or Other Identifier	Engine Type	Serial # of Engine	Engine Make	Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Current Tier	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fuel Used (gal/year)		Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/	New Engine	New Engine Displacement per Cylinder (Liters)	New Tier Leve (Replacements Repowers/	Level for PM	New Fuel	Annual Idling Hours Reduced (per Toengine)	echnology T Unit Cost Ir	Fechnology Un
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Project 2 Information

	Organization									Additional	
	Performing		Number of					Funding	Additional	Funding	
ProjectName	Project	TargetFleet	Vehicles	City	County	State	Region	Amount	Funding Source	Amount	Public Benefit
		Morino									

Fleet 2 Information for MARINE VESSELS ONLY

						Current Vess	sel Informatio	n												New	Vessel/Technol	ogy Information				
Sector	Application	Boat Name or Other Identifie		Serial # of Engine	e Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fue Used (gal/year	Annual Usage Rate (Hours per engine)	Hours (per	Year of Retrofit	: Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)	Horsepower	New Engine Displacement pe Cylinder (Liters) (Replacements/ Repowers)	(Replacements	Level for PM	Annual Idling Hours Reduced (per engine)	Technology U
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Copy and paste additional lines as necessary to capture project fleet information.

Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Instructions

Engine Family Name information is optional for Idle Reduction projects.

Engine Model Year- Enter the model year of this engine set.

Horsepower- For NONROAD ONLY, Enter the average horsepower of the equipment.

Displacement per cylinder Enter the engine displacement per cylinder in liters.

Current Tier Level- For NONROAD REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level.

Current Standard Level - For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the current emission standard levels of the engine for PM and NOx or NMHC+NOx.

Current Fuel Type- Select the type of fuel that is currently being used (prior to any clean diesel activity change).

Amount of Fuel Used- Enter the amount of fuel used in gallons/year.

Annual Miles- For ON-HIGHWAY ONLY, Enter the average number of vehicle miles traveled per year per vehicle.

Annual Usage Rate Hours- For NONROAD ONLY, Enter the average number of hours the equipment is used per year.

Annual Idling Hours- For ON-HIGHWAY ONLY, Enter the average number of hours the vehicle idles per year.

Year of Retrofit Action- Enter the year in which the retrofit will take place (i.e., if in 2010, you're replacing a 1995 bus with a 2007 bus, the retrofit year is 2010.)

Technology Type- Enter the type of technology to be used. Example: Diesel Particulate Filter, Replacement

Technology Make- Enter the make of the technology. Example: Donaldson, Caterpillar.

Verified Technology Model- Enter the model of the technology as identified on the EPA/CARB verification lists (i.e. Johnson Matthey ACCRT, Carrier

Transicold - Comfortpro, etc.) to confirm a verified technology was used.

This is applicable for exhaust retrofits, upgrades, and idle reduction technologies.

Verified Technology Model may not be known for the initial application, pending the bid process, and would be noted as TBD.

New Engine Family Name- For REPLACEMENTS AND REPOWERS ONLY, Enter the Engine Family Name of the new engine.

New Engine Model Year- For REPLACEMENTS AND REPOWERS ONLY, Enter the model year of the new vehicle/engine.

New Horsepower- For NONROAD ONLY, Enter the average horsepower of the equipment.

New Displacement per cylinder Enter the engine displacement per cylinder in liters.

New Tier Level- For NONROAD REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the new Tier Level.

New Standard Level- For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the new emission standard levels of the engine for PM and NOx or NMHC+NOx.

New Fuel Type- Select the new type of fuel that is being used.

Annual Idling Hours reduced- For IDLE REDUCTION STRATEGIES ONLY, Enter the average number of idling hours reduced for the engine.

Technology Unit Cost- Enter the dollar amount of the technology per unit.

Technology Unit Installation- Enter the cost of installing the technology per unit.

Marine Vessels

Sector- This field will always read marine.

Application- Select the target vessel.

Boat Name- Enter the boat name or other identifier of the vessel

Number of Engines per Vessel- Enter the total number of engines on the vessel including auxiliary and propulsion. The max number of engines allowed per vessel is 5.

Engine Type- Identify which engines are propulsion and which are auxiliary.

VIN/Serial # - For Repower and Vehicle Replacement Projects, Enter the VIN or engine Serial # for each scrapped/replaced vehicle or engine.

Engine Make- Enter the manufacturer of the exisiting Engine.

Engine Model- Enter the model of the exisiting Engine.

Engine Family Name- Enter the Engine Family Name for each engine. Unregulated engines will not have an Engine Family Name.

Engine Model Year- Enter the model year of the existing engine.

Horsepower- Enter the horsepower of the existing engine.

Displacement per cylinder Select from the dropdown menu the displacement per cylinder in liters.

Current Tier Level- For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level.

Current Standard Levels- For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the current emission standard levels of the engine for PM and NOx

Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Instructions

or NMHC+NOx.

Current Fuel Type- Select the type of fuel that is currently being used (prior to any clean diesel activity change).

Amount of Fuel Used- Enter the amount of fuel used in gallons/year for the engine.

Annual Usage Rate Hours- Enter the average number of hours the engine is used per year.

Annual Idling Hours per Engine- Enter the idling hours for the engine in a given year.

Year of Retrofit Action Enter the year in which the retrofit will take place (i.e. If in 2010, you're upgrading a Tier 0 engine to Tier 1, then the retrofit year is 2010)

Technology Type- Enter the type of technology to be used. Example: Diesel Oxidation Catalyst, Shore Power, Engine Repower, etc.

Technology Make- Enter the make of the technology. Example: Donaldson, Caterpillar.

Verified Technology Model- Enter the model of the technology if available (i.e. Johnson Matthey PCRT).

New Engine Family Name- For REPLACEMENTS AND REPOWERS ONLY, Enter the Engine Family name of the new engine.

New Engine Model Year- For REPLACEMENTS AND REPOWERS ONLY, Enter the model year of the new engine.

Horsepower- Enter the horsepower of the new engine.

Displacement per cylinder Select from the dropdown menu the displacement per cylinder in liters.

New Engine Tier Level- For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the new Tier Level.

New Standard Levels- For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the new emission standard levels of the engine for PM and NOx or NMHC+NOx.

New Fuel Type- Select the new type of fuel that is being used.

Annual Idling Hours reduced- For IDLE REDUCTION STRATEGIES ONLY, Enter the number of idling hours reduced as a result of this technology.

Technology Unit Cost- Enter the cost of the technology per unit.

Technology Unit Installation- Enter the cost of installing the technology per unit.

Applicant Information

Organization/ Applicant Name	FirstName	LastName	JobTitle	Address	City	State	Email Address	ZipCode	OfficePhone	OfficePhone Ext
State										
Environmental			Grants							
Department	John	Doe	Administrator	123 State Road	Anycity	OR	youremail@do	98765	123-456-7890	

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Project Name	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	Region	Funding Amount	Additional Funding Source	Additional Funding Amount	Public Benefit
Implementation of Certified Clean Diesel Technologies at											
the Port of Anycity: Dray	Individual Dray Truckers	Ports and Airports	24	Anycity	Anycounty	OR	10	\$320,574	0	\$2,000	yes

formation:																													
							Current	Vehicle Informa	ation												New V	ehicle/Technol	ogy Information	on					
Vehicle Type	TargetFleet	Class/ Equipment	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then NA)	Engine Model Year	Horsepower (Nonroad Only)	Displacement pe	r Current Tier Leve (Nonroad)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)	Annual Miles per vehicle (Highway)	 Annual Idling Hours (per engine)	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements Repowers)		New Tier Level (Nonroad replacements N / Repowers/ Upgrades)	New Standard Level for PM and NOx or NMHC+NOx	New Fuel Type	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	Technology Unit Installation Cost
				<u> </u>							PM-2.5 annual standard: 5 µg/m3						Diesel	Engine							PM-2.5 annual standard: 5 µg/m3	Diesel			
	Ports and										annually; Nox - 0.	1 (ULSD), 15					Oxidation	Control							annually; Nox - 0.1	(ULSD), 15			1
On Highway	Airports	Class 8A		Caterpillar	3406	TCP403DZDABA	1994				μg/m3	ppm	4500	28834	260	2011	Catalyst	Systems	AZ Puimuffler						μg/m3	ppm		2369	510
											PM-2.5 annual														PM-2.5 annual				1
	Ports and										standard: 5 µg/m3 annually: Nox - 0.	Diesel 1 (ULSD), 15					Diesel Particulate	Engine Control							standard: 5 µg/m3 annually; Nox - 0.1	Diesel (ULSD), 15			ı
On Highway	Airports	Class 8A		Cummins	M11 350 E	TCE359D6DAAA	1994				un/m3	nnm	8045	40384	500	2011	Filter	Systems	Purifilter Plus						un/m3	nom		15558.55	3910

Project 2 Information

Project Name	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	Region	Funding Amount	Additional Funding Source	Additional Funding Amount	Public Benefit
Marine Ferry & Tug Repower Project	XYZ Towing & Transportation Company	Marine		Anycity	Anvcountv	OR	10		XYZ Towing & Transportation	\$1,000,000	

Fleet 2 Information for MARINE VESSELS ONLY

							(Current Vessel Inf	ormation													New Ve	ssel/Technology	Informatio	ion				
Sector	Application	Boat Name or Other Identifier	Total Number of Engines per Vessel	Engine Type	Serial # of Engine	Engine Make	Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Annual Usage Rate Amount of Fuel (Hours pe Used (gal/year) engine)	Annual Idling Hours (per engine)	Year of Retrofit Action	Technology Type	Technology Mal	Verified ke Technology Model	New Engine Family Name (Replacements/ Repowers)	Model Year (Replacements/ Repowers/	New Engine Horsepower (Replacemen ts/	Cylinder ters) acemen s/	New Tier Level	New Standard Level for PM and NOx or NMHC+NO x N	New Fuel Type	Annual Idling Hours Reduced Technolog (per engine) Unit Cost	Technology Unit
				propulsion	76HI-1234			NA	1975	195) 5.0<= size <15.0	Tier 0	Nox standard: 9.2; PM standard: 0.5		140000			Engine 3 Repower	EMD	8-710G7C-T2	4GMXM06459E2	2012	5.0<= 2500 <15.0	Tier	or 2	0.5 ppn Nox standard: 9.2; PM	esel (LSD), 500 m		
				propulsion	76HI-5678			NA NA	1975 1975		0 5.0<= size <15.0 0 0.9 <= size < 1.2		standard: 0.5	Diesel (LSD),	30000		2013	Vehicle/Equip ment Replacement	John Deere	8-710G7C-T2 CKM100DM3	4GMXM06459E2 BJDXL02.4074	2012	5.0<= 2500 <15.0 1.2 <- 200 <2.5	Tier	or 2	0.5 ppn Nox standard: 9.2; PM standard: Die: 0.5 ppn	esel (LSD), 500		
Marine	Tug Boat/ Tow Boat	Tug#1	4	auxilliary				NA .	1975	20	0 0.9 <= size < 1.2		Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	30000		2013	Vehicle/Equip ment 3 Replacement		CKM100DM3	BJDXL02.4074	2012	1.2 < 200 <2.5	size Tier	er 2	Nox standard: 9.2; PM standard: Die: 0.5	esel (LSD), 500 m		
				propulsion	16VF012345			NA	1995	110	1.2 <= size <2.5		Nox standard: 9.2; PM standard: 0.5	Diesel (LSD),	150000			Engine Repower	мти	10V2000M72	BMDDL14.0ZWK	2012	5.0<= 1100 <15.0			standard: 9.2; PM	nsel (LSD), 500		

Applicant Fleet Description Projects to Improve Air Quality at Ports - 2013 DERA Funding Opportunity Example

																	Vox	
																	tandard:	
								Manager dend									o o DM	
								Nox standard:									9.2; PM	
								9.2; PM Diesel (LSD),			Engine				5.0<= siz	ize	standard: Diesel (LSD), 500	
			propulsion	16VF012346	NA	1995	1100 1.2 <= size <2.5 Tier 0	standard: 0.5 500 ppm	150000	2013	Repower	MTU 10V2000M72	BMDDL14.0ZWK 2	12 110	0 <15.0	Tier 2	0.5 ppm	
															_			
Tug E	Boat/ Tow																	
Marine E	Boat Tug#2	2																

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egion	Model Year	States	Fleet Type	_		
1	1970		Ports and Airports		Vehicle Type	Vehicle Class or Type of Nonroad Equipment
2			Rail		On Highway	Class 5
3			Drayage/Short Haul		NonRoad	Class 6
4	1973	AR	Marine			Class 7
5	1974	CA	Stationary			Class 8A
6			Other		public fleet	Class 8B
7	1976	СТ			yes	ACRefrigeration
8					no	Aerial Lifts
ç	1978	DC				Cranes
10	1979	FL				Ferries
	1980	GA				Forklifts
	1981				Fuel	Hydro Power Units
	1982				Diesel (ULSD), 15 ppm	Light Commercial Air Compressors
	1983				Diesel (LSD), 500 ppm	Light Commercial Gas Compressors
	1984				Diesel, 3,400 ppm	Light Commercial Generator Sets
	1985				Biodiesel 100	Light Commercial Pressure Washer
	1986				Biodiesel 20	Light Commercial Pumps
	1987				Biodiesel 5	Light Commercial Welders
	1988				LPG	Locomotives Switch
	1989				LNG	Locomotives Other
	1990	ME			CNG (lbs)	Off-Highway Tractors
	1991	MD			CNG (ft3)	Off-highway Trucks
	1992	MH			E85	Other General Industrial Equipment
	1993	MI			Emulsion	Other Material Handling Equipment
	1994	MN	Tiers			Railway Maintenance
	1995		unregulated			Terminal Tractors
	1996		Tier 0			Tractors/Loaders/Backhoes
	1997		Tier 1			
	1998	NE	Tier 2			
	1999	NV	Tier 3			
	2000	NH	Tier 4			
	2001	NJ	Tier 0+			
	2002	NM	Tier 1+			
	2003		Tier 2+			
	2004	NC				

	1			
2005	ND			
2006	OH			
2007	OK			
2008	OR			
2009	PA			
2010 2011	RI			
2011	SC			
2012	SD			
2012 2013	TN			
2014	TX			
2014	UT			
+	VT			
	VA			
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Technology	Marine Application	Engine Type	Displacement per cylinder	
Diesel Oxidation Catalyst	Container	auxilliary	size < 0.9	
Diesel Oxidation Catalyst + B20	Ferry/Excursion	propulsion	0.9 <= size < 1.2	
Diesel Oxidation Catalyst + B100	Tug Boat/ Tow Boat	l ska sa	1.2 <= size <2.5	
Diesel Oxidation Catalyst + Closed Crankcase Ventilation	19 1111			
+B20	Commercial Fishing		2.5<= size <3.5	
Diesel Oxidation Catalyst + Closed Crankcase Ventilation +	Commercial Charter			
B100	Fishing		2.5<= size <5.0	
Diesel Oxidation Catalyst + Emulsion	Crew and Supply		5.0<= size <15.0	
Diesel Particulate Filter	Pilot		15.0<= size <20.0	
Diesel Oxidation Catalyst + Closed Crankcase Ventilation	Work Boat		20.0<= size <25.0	
Diesel Particulate Filter + Closed Crankcase Ventilation	Other		25.0<= size <30.0	
Diesel Oxidation Catalyst + Closed Crankcase Ventilation +				
ULSD (for Nonroad only)				
Diesel Oxidation Catalyst + ULSD (for Nonroad only)				
Partial Flow Filter				
Lean NO _x Catalyst/Diesel Particulate Filter				
Selective Catalytic Reduction				
Exhaust Gas Recirculation + Diesel Particulate Filter				
Ultra Low Sulfur Diesel (ULSD)				
Compressed Natural Gas				
Liquid Natural Gas				
Biodiesel (B20)				
Biodiesel (B100)				
Hybrid				
Hybrid Electric Replacement with Diesel Particulate Filter				
Compressed Natural Gas (CNG) Replacement				
Alternative Fuel Conversion				
Verified Engine Upgrade Kit				
Certified Remanufacture System				
Engine Repower				
Vehicle/Equipment Replacement				
Shutdown/Startup for Locomotives				
Shore Connection System (Marine)				
Shore Connection System (Locomotive)				
Generator Set				
Engine Shutdown				
Other				

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