Applicant

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
										-	

Fleet 1 Information

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

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

							Curren	t Vehicle Inform	ation												Ne	w Vehicle/Tech	nology Informa	tion					1
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then NA)	n Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fuel Used (gal/year)	Annual Miles per vehicle (Highway)	Annual Usage Rate (Hours per engine) (Nonroad)	Idling	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Mode	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements/ Repowers)	Displacement pe Cylinder (Liters)	replacements/	New Standard Level for	New Fuel	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	
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Copy and paste additional lines as necessary to capture project fleet information.

Project 3 Information

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.																													
							Currer	t Vehicle Inform	ation												Ne	w Vehicle/Tech	nology Informa	tion	1			1	
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	Displacement per Cylinder (Liters)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)	Annual Miles per vehicle (Highway)	Annual Usage Rate (Hours per engine) (Nonroad)	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 Engine Displacement pe Cylinder (Liters) (Replacements/ Repowers)	New Tier Level (Nonroad replacements/ 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
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Applicant Fleet Description Projects to Improve Air Quality at Ports - 2014 DERA Funding Opportunity Fleet Description

Copy and paste additional lines as necessary to capture project fleet informati

Project 4 Information

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

Fleet 4 Information:

							Currer	nt Vehicle Inform	nation											Ne	w Vehicle/Tech	nology Informa	ation				1	
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, the NA)	n Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Used	Annual Usage Rate (Hours per engine) (Nonroad)	Idling	Year of Retrofit T Action	Technology Type	Technology Make	Verified Technology Mode	(Replacements/		New Engine Horsepower (Replacements/ Repowers)	Displacement pe Cylinder (Liters)) replacements/	New Standard Level for		Annual Idling Hours Reduced (per engine)		
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Project 5 Information

momunon											
	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	nation										Ne	w Vehicle/Tech	nology Informa	ition			1	(
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or vehicle	Engine Make Engir	unre	ingine Family Name (If regulated, then NA)	Engine Model Year	Horsepower	Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx		Annual Usage Rate (Hours per engine) (Nonroad)	Idling	Year of Retrofit Techn Action Typ	ology Technology De Make	Verified Technology Mode	New Engine Family Name (Replacements/ Repowers)	New Engine Model Year (Replacements/ Repowers/ Upgrades)		New Engine Displacement per Cylinder (Liters) (Replacements/ Repowers)	er (Nonroad replacements/	New Standard Level for	Annual Idling Hours Reduced (per engine)		
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Copy and paste additional lines as necessary to capture project fleet information.

Please replicate the Project and Fleet Information Tables as necessary for additional Projects/Fleets.

Applicant Information

Organization/ Applicant Name	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	OfficePhoneE xt
Project 1 Inform	ation									

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

Fleet 1 Information for MARINE VESSELS ONLY

					Current Vess	el Informatio	n										New	Vessel/Technology	ogy Information						
Sector		Boat Name or Other Identifier		Engine Make	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Standard Level for PM and NOx or NMHC+NOx	Amount of Fue Used (gal/year	Annual Usage Rate (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)	Cylinder (Liters)	(Replacements/ Repowers/	Level for PM	New Fuel	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	Technology Unit Installation Cost
Marine																									
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Marine																					1				

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

Project 2 Inform											
	Organization Performing		Number of					Funding	Additional	Additional Funding	
ProjectName	Project	TargetFleet	Vehicles	City	County	State	Region	Amount	Funding Source	Amount	Public Benefit
		Marine									

Fleet 2 Information for MARINE VESSELS ONLY

							Current Ves	sel Informatio	n											New	Vessel/Technol	ogy Information						
Sector	E Application C	Boat Name or E		Serial # of Engine	Engine Make	e Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier		Annual Usage Rate (Hours per engine)	Hours (per	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 Engine Displacement per Cylinder (Liters) (Replacements/ Repowers)	(Replacements Repowers/	Level for PM	New Fuel	Annual Idling Hours Reduced (per engine)	Technology	Technology Unit Installation Cost
			-																									
Marine			-																									
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Copy and paste additional lines as necessary to capture project fleet information.

Please replicate the Project and Fleet Information Tables as necessary for additional Projects/Fleets.

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

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

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@dd	98765	123-456-7890	

Project 1 Information

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	Ports and									
Truck Sector	Truckers	Airports	24	Anycity	Anycounty	OR	10	\$320,574	0	\$2,000	yes

Fleet 1 Information:

iniornation.																													
							Curren	t Vehicle Inform	ation												New Ve	ehicle/Technol	ogy Informat	tion					
Vehicle Type	TargetFleet	Class/ Equipment	Serial and/or VIN # of engine and/or vehicle	Engine Make		Engine Family Name (If unregulated, then NA)		Horsepower (Nonroad Only)	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 Miles per vehicle (Highway)	Idling	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements/ Repowers)	New Engine Displacement per Cylinder (Liters) (Replacemen ts/ Repowers)	New Tier	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
On Highway	Ports and Airports	Class 8A		Caterpillar	3406	TCP403DZDABA	1994				PM-2.5 annual standard: 5 µg/m3 annually; Nox - 0.1 µg/m3	Diesel (ULSD), 15 ppm	4500	28834	260	2011	Diesel Oxidation Catalyst	Engine Control Systems	AZ Puimuffler						PM-2.5 annual standard: 5 µg/m3 annually; Nox - 0.1 µg/m3	Diesel (ULSD), 15		2369	510
On Highway	Ports and Airports	Class 8A		Cummins		TCE359D6DAAA	1994				PM-2.5 annual standard: 5 µg/m3 annually; Nox - 0.1 µg/m3	Diesel (ULSD), 15 ppm	8045	40384	500	2011	Diesel Particulate Filter	Engine Control Systems	Purifilter Plus						PM-2.5 annual standard: 5 µg/m3	Diesel (ULSD), 15 ppm		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 &	XYZ Towing &								XYZ Towing &		
Tug Repower	Transportation								Transportation		
Project	Company	Marine	2	Anycity	Anycounty	OR	10	\$1,500,000	Company	\$1,000,000	yes

Fleet 2 Information for MARINE VESSELS ONLY

							C	Current Vessel Ir	formation														New	Vessel/Tech	nnology Inform	nation				
Sector	Application	Boat Name (Other Identifi	Total Number or of Engines ier 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 Tie Level	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)	(Hours per	Annual Idling Hours (per engine)	Year of Retrofit Action	Technology Type	Technology Make	Verified	New Engine Family Name (Replacements/ Repowers)		Horsepowe (Replacements/	New Engine Displacemen t per Cylinder (Liters) en (Replacemen ts/ c) Repowers)	New Tier Level (Replacements/ Repowers/ Upgrades)	New Standard Level for PM and NOx or NMHC+NO) x		Annual Idling Hours Reduced Techno (per engine) Unit C	ogy Technology Un st Installation Cos
				propulsion	76HI-1234			NA	1975	1950	5.0<= size <15.0	Tier 0	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	140000			2013	Engine 3 Repower	EMD	8-710G7C-T2	4GMXM06459E2	201:	2 250	5.0<= size 00 <15.0	Tier 2	Nox standard: 9.2; PM standard: I 0.5	Diesel (LSD), 500 ppm		
				propulsion	76HI-5678			NA	1975	1950	5.0<= size <15.0	Tier 0	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	140000			2013	Engine 3 Repower	EMD	8-710G7C-T2	4GMXM06459E2	201:	2 250	5.0<= size 00 <15.0	Tier 2		Diesel (LSD), 500 ppm		
				auxilliary				NA	1975	200	0.9 <= size < 1.2	Tier 0	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	30000			2013	Vehicle/Equip ment 3 Replacement	John Deere	CKM100DM3	BJDXL02.4074	201:	2 20	1.2 <= size 00 <2.5	Tier 2	Nox standard: 9.2; PM standard: I 0.5 p	Diesel (LSD), 500 ppm		
Marine	Tug Boat/ Tow Boat	w Tuo#1		auxilliary				NA	1975	200	0.9 <= size < 1.2	Tier 0	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	30000			2013	Vehicle/Equip ment 3 Replacement		CKM100DM3	BJDXL02.4074	201:	2 20	1.2 <= size 00 <2.5	Tier 2	Nox standard: 9.2; PM standard: I 0.5	Diesel (LSD), 500 ppm		
wanne	Boat	iug#1	4	propulsion	16VF012345			NA	1995	1100	1.2 <= size <2.5	Tier 0	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm	150000			2013	Engine 3 Repower	мти	10V2000M72	BMDDL14.0ZWK	201:	2 110	5.0<= size 00 <15.0	Tier 2	Nox standard: 9.2; PM standard: I 0.5	Diesel (LSD), 500 ppm		

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

		propulsion	16VF012346	NA	1995	1100 1.2 <= size <2.5 Tier 0	Nox standard: 9.2; PM Diesel (LSD), standard: 0.5 500 ppm	150000		Engine 2013 Repower	MTU	10V2000M72 BMDDL14.02	VK 2012	5.0<= size 1100 <15.0	Tier 2	Nox standard: 9.2; PM standard: 0.5	Diesel (LSD), 500 ppm		
Tug Boat/ Tow																			
Marine Boat T	Tug#2 2																		1

		DO NOT	MODIFY THIS PA	GE A	AT ALL!	
Region	Model Year	States	Fleet Type			
1	1970	AK	Ports and Airports		Vehicle Type	Vehicle Class or Type of Nonroad Equipment
2			Rail		On Highway	Class 5
	3 1972		Drayage/Short Haul		NonRoad	Class 6
Z	1973	AR	Marine			Class 7
5	5 1974	СА	Stationary			Class 8A
6	5 1975	со	Other		public fleet	Class 8B
7	7 1976	СТ			yes	ACRefrigeration
8	3 1977	DE			no	Aerial Lifts
ç	9 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	IN			Diesel, 3,400 ppm	Light Commercial Generator Sets
	1985				Biodiesel 100	Light Commercial Pressure Washer
	1986				Biodiesel 20	Light Commercial Pumps
	1987	KY			Biodiesel 5	Light Commercial Welders
	1988	LA			LPG	Locomotives Switch
	1989	MA			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				Emulsion	Other Material Handling Equipment
· · · · · · · · · · · · · · · · · · ·	1994		Tiers			Railway Maintenance
	1995		unregulated			Terminal Tractors
· · · · · · · · · · · · · · · · · · ·	1996		Tier 0			Tractors/Loaders/Backhoes
	1997	MT	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				

2005				
2005	ND			
2006	ОН			
2007	OK			
2008	OR			
2007 2008 2009	PA			
2010	RI			
2011	SC			
2012	SD			
2012				
2013	TY			
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			Displacement ner	
Technology	Marine Application	Engine Type	Displacement per cylinder	
Diesel Oxidation Catalyst	Container	Engine Type auxilliary	size < 0.9	
Diesel Oxidation Catalyst + B20	Ferry/Excursion		0.9 <= size < 1.2	
Diesel Oxidation Catalyst + B20	Tug Boat/ Tow Boat	propulsion	1.2 <= size < 1.2	
	Tug boal/ Tow boal		1.2 <= SIZE <2.5	
Diesel Oxidation Catalyst + Closed Crankcase Ventilation			0.5 0.5	
+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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