



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			Public Benefit
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/ehicle 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		Displacement pe 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	New Engine Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements/ Repowers)	Displacement pe Cylinder (Liters) (Replacements/	replacements/	New Standard Level for	New Fuel	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	
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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				7
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or vehicle	Engine Model	Engine Family Name (If unregulated, then Er NA)	ngine Model Year	Horsepower	Displacement pe Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Used	per vehicle	Annual Usage Rate (Hours per engine) (Nonroad)	Idling	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 PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology	Technolo Unit Installat 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:																														
							Curren	nt Vehicle Inform	ation													Ne	w Vehicle/Techr	nology Informa	tion					
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 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 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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fy14-tribal-afd-sample Fleet Description

Page 1 of 12



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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

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-		Performing		Number of						Additional	Additional	
	Project Name	- · · ·	T (F)		0.1		0	n .				D 11: D 6:
-	Project Name	Project	TargetFleet	Vehicles	City	County	State	Region	Funding Amount	Funding Source	Funding Amount	Public Benefit

Fleet 5

Information:	

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Class/ Equipment	Serial and/or VIN # of engine and/or vehicle	Engine Make		Engine Family Name (If unregulated, then NA)	Engine Model Year			Current Tier Level	Level for PM and NOx or	Fuel Type	Fuel Used	Annual Miles per vehicle	Rate (Hours per engine)	Idling Hours (per	Year of Retrofit Action	Technology Type			New Engine Family Name (Replacements/		Horsepower	Displacement per Cylinder (Liters)) replacements/	New Standard Level for	New Fuel			Technolo Unit Installatio Cost
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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/										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
		Marine									

Fleet 1 Information for MARINE VESSELS ONLY

								Current Ves	sel Informatio	n											New	Vessel/Technol	ogy Information						
Sector	Application O	Noat Name or En	Total lumber of ngines per Vessel E	ingine Type E	Serial # of Engine	Engine Mak	e Engine Model		Engine Model Year		Displacement per Cylinder (Liters)	Current Tier		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/ Repowers/ Upgrades)	Horsepower	New Engine Displacement per Cylinder (Liters) (Replacements/ Repowers)	(Replacements	New Standard Level for PM and NOx or NMHC+NOx	New Fuel	Annual Idling Hours Reduced (per engine)	Technology	Technology Installation (
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Copy and paste additional lines as necessary to capture project fleet information.

Project 2 Information

	O	rganization									Additional	
	P	Performing		Number of					Funding	Additional	Funding	
Projecti	Name	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/Technology Information Annual Usage Annual Idling Leaf Rate (Hours Parine) Replacements (Replacements) Repowers) Annual Usage Annual Idling Leaf Rate (Hours Parine) Representation Replacements (Replacements) Repowers) New Engine Replacements (Replacements (Replacements) Repowers) New Engine Horsepower (Replacements) Repowers) New Engine Horsepower (Replacements) Repowers) New Engine Horsepower (Replacements) Repowers) New Engine Horsepower (Replacements) Repowers) New Engine Horsepower (Replacements) Repowers) New Hole Idling Hours Repowers) New Fuel Level for Mand Ock or NMH-C+NOx Type Reduced (per engine) New Engine Horsepower (Replacements) Repowers)															
Sector	Application	Boat Name or I	Total Number of Engines per Vessel	Serial # of Engine	Engine Make	e Engine Mode		Engine Model Year		Displacement per Cylinder (Liters)	Current Tier	Current Standard evel for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fue Used (gal/year	Rate (Hours	Hours (per				Technology	Family Name (Replacements/	Model Year (Replacements/ Repowers/	Horsepower (Replacements/	Displacement per Cylinder (Liters) (Replacements/	(Replacements Repowers/	Level for PM and NOx or	New Fuel	Hours Reduced (per	Technology	Technology Un Installation Cos
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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.



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. a private school bus company contracted by a public school; 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.



Engine Family Name information is optional for Idle Reduction, Aerodynamic Technology, Low Rolling Resistance Tires, and Fuels 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, Biodiesel 100

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, idle reduction technologies, aerodynamics and low rolling resistant tires.

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



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.



Organization/ Applicant Name	FirstName	LastName	JobTitle	Address	City	State	Email Address	ZipCode	OfficePhone	OfficePhone Ext
Village of Springfield	Jeannie		General Services Fleet Manager	P.O. Box 270	Springfield	мо	Jeannie.Wils on@vos.nsn.	65102	573-555-1199	

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
VOS Dept of Transport Retrofits	Village of Springfield Department of Environmental Quality	Other	2	St. Louis		мо	7		In-kind contribution from VODDEQ	\$2,000	yes

Information:																													
							Currer	nt Vehicle Inforn	nation												New \	/ehicle/Techno	ology Inform	nation					
Vehicle Type	TargetFleet	Class/	Serial and/or VIN # of engine and/or vehicle	Engine Make	Engine Model	Engine Family Name (If unregulated, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Fuel Used	Annual Miles		Year of Retrofit Action	Technology Type		Verified Technology Model	New Engine Family Name (Replacements/	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements/ Repowers)	New Engine Displacement t per Cylinde (Liters) (Replacements/ ts/ Repowers)	New Tier Level (Nonroad	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	City/County vehicle	Dumpers/Ten ders	#7M001145	International	DT466	2NVXH0466ANA	2002	300	7.6		PM: 0.10, NOx: 4.0 g/bhp-hr	Diesel (ULSD), 15 ppm	8000		800	2009	Diesel Oxidation Catalyst	Donaldson	Series 6100 DOC										
On Highway	City/County vehicle		#MVA26679	International	DT466	2NVXH0466ANA	2002	300	7.6		PM: 0.10, NOx: 4.0 g/bhp-hr	Diesel (ULSD), 15 ppm	8000		800	2009	Diesel Oxidation Catalyst	Johnson Matthey	CRT3										

Project 2 Information

5	Project Name	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	Region	Funding Amount	Additional Funding Source	Additional Funding Amount	Public Benefit
		Village of Springfield										
		Department of Environmental								In-kind contribution from		
Re	trofits	Quality	Construction	2	Springfield		MO	7	\$111,478	MODOT	\$2,400	yes

Fleet 2

Information:																													
							Currer	nt Vehicle Inform	nation												New '	Vehicle/Techno	ology Informa	ation					
Vehicle Type	TargetFleet	Class/ Equipment	Serial and/or VIN # of engine and/or vehicle		Engine Model	Engine Family Name (If unregulated, then NA)	Engine Model Year		Displacement per Cylinder (Liters)	Current Tier Leve (Nonroad)	Current Standard Level for PM and I NOx or NMHC+NOx			Annual Miles per vehicle (Highway)		Idling	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (Replacements/ Repowers/ Upgrades)	New Engine Horsepower (Replacements/ Repowers)	New Engine Displacemen t per Cylinder (Liters) (Replacemen ts/ Repowers)	New Tier Level (Nonroad replacement s/ Repowers, Upgrades)		New Fuel Type	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	Technology Unit Installation Cost
NonRoad	Construction		#8GT1429IA 10871	John Deere	DB33A	WDWXL03.3AM N	1998	62		Tier 1	PM: N/A, NOx: 9.2 g/kW-hr	Diesel (LSD), 500 ppm	14000		300		2009	Biodiesel (B20)								Biodiesel 20			
			#BWK03091									Diesel (LSD),						Engine							PM: 0.40, NMHC+NOx: 4.7 g/kW-	Diesel (LSD), 500			
NonRoad	Construction			New Holland			1995	80		Tier 0		500 ppm	2700		250		2009	Repower	New Holland		2008	300		Tier 3	hr	ppm			

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	1	
		Marine	2	New York		NY	2	\$1,500,000		\$1,000,000	yes

leet 3 Inform	ation for MARI	INE VESSELS	ONLY																											
Current Vessel Information										New Vessel/Technology Information																				
Sector	Application	Boat Name or Other Identifier	of Engines	Engine Type	Serial # of Engine	Engine Make	Engine Model	Engine Family Name (If unregulated engine, then NA)	Engine Model Year		Displacement per Cylinder (Liters)		Current Standard Level for PM r and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year)		Annual Idling Hours (per engine)	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Mode	New Engine Family Name (Replacements/ Repowers)	Model Year		(Liters) (Replaceme nts/	New Tier Level (Replacements/ Repowers/ Upgrades)	New Standard Level for PM and NOx or NMHC+NO	New Fuel Type		Technology Unit
				propulsion	76HI-1234				1975	4050	5.0<= size <15.0		D	iesel (LSD), 00 ppm	140000			2044	Engine Repower	EMD	8-710G7C-T2		2010			Tier 2				
				propulsion	/6HI-1234				19/5	1950	5.U<= SIZE <15.U	Tier U		iesel (LSD),	140000			2011	Engine	EMD	8-710G7C-12		2010	4		Her 2				
				propulsion	76HI-5678				1975	1950	5.0<= size <15.0	Tier 0		00 ppm	140000			2011		EMD	8-710G7C-T2		2010	0		Tier 2				ı
				auxilliary					1975	200	0.9 <= size < 1.2	Tier 0	Di	iesel (LSD), 00 ppm	30000			2011	Vehicle/Equip ment Replacement		CKM100DM3		2010	0		Tier 2				
	Tug Boat/ Tow			auxilliary					1975	200	0.9 <= size < 1.2	Tier 0		lesel (LSD), 00 ppm	30000			2011	Vehicle/Equip ment I Replacement		CKM100DM3		2010	0		Tier 2]
Marine	Boat	Tug#1	4																											
				propulsion	16VF012345				1995	1100	1.2 <= size <2.5	Tier 0	Di 50	iesel (LSD), 00 ppm iesel (LSD),	150000			2011	Engine Repower	MTU	10V2000M72		2010	0		Tier 2				
				propulsion	16VF012346				1995	1100	1.2 <= size <2.5	Tier 0		iesel (LSD), 00 ppm	150000			2011	Engine Repower	MTU	10V2000M72		2010	0		Tier 2				<u> </u>
			l																											
	Tug Boat/ Tow	1																												
Marine	Boat	Tug#2	2		1	1	1	ı	1		ı	1	1 1		l	1	1		1	1	l	1	1	1		1	1			

	Madal	DO N	IOT MODIFY THI	S PAGE AT ALL!	Valida Olasa as Tima
	Model	Stata	Floor Tymo	Vehicle Type	Vehicle Class or Type
Region 1	Year 1970	AK	Fleet Type School Bus	Vehicle Type On Highway	of Nonroad Equipment Class 5
2	1971	AL	Ports and Airports	NonRoad	Class 6
	1071	/ \L	r orto ana 7 inporto	Homeoda	01435 0
3	1972	ΑZ	Construction		Class 7
	4070		D T		
4	1973	AR	Delivery Truck		Class 8A
5	1974	CA	Transit Bus	public fleet	Class 8B
6	1975	CO	Rail	yes	School Bus
	1070	-	ran	, , , , , , , , , , , , , , , , , , , 	Control Bus
7	1976	CT	Refuse Hauler	no	Transit Bus
	4077	D E	11000 17 12 1		
8	1977	DE	Utility Vehicle		-
9	1978	DC	Long Haul		2-Wheel Tractors
10	1979	FL	Short Haul		ACRefrigeration
	1980	GA	Agriculture	Fuel	Aerial Lifts
	1981	HI	Mining	Diesel (ULSD), 15 ppm	Agricultural Mowers
	1982	ID	Marine	Diesel (LSD), 500 ppm	Agricultural Tractors
	1983	IL	Stationary	Diesel, 3,400 ppm	Airport Support Equipment
	1984	IN	- 1,	Biodiesel 100	Balers
-	1985 1986	IA KS	Emergency vehicle Other	Biodiesel 20 Biodiesel 5	Bore/Drill Rigs Cement & Mortar Mixers
	1986	KY	Ottici	LPG	Combines
	1988	LA		LNG	Concrete/Industrial Saws
	1989	MA		CNG (lbs)	Cranes
	1990	ME		CNG (ft3)	Crawler Tractors
	1991	MD		E85	Crushing/Proc. Equipment
	1992	MH		Emulsion	Dumpers/Tenders
	1993	MI	T:		Excavators
	1994 1995	MN MS	Tiers unregulated		Ferries Forklifts
	1996	MO	Tier 0		Graders
	1997	MT	Tier 1		Hydro Power Units
	1998	NE	Tier 2		Irrigation Sets
	1999	NV	Tier 3		Light Commercial Air Compressors
	2000	NH	Tier 4		Light Commercial Gas Compressors
	2001	NJ	Tier 0+		Light Commercial Generator Sets
	2002 2003	NM NY	Tier 1+ Tier 2+		Light Commercial Pressure Washer Light Commercial Pumps
		NC	Tiel 2+		Light Commercial Welders
		ND			Locomotives Line-Haul
		OH			Locomotives Switch
	2007	OK			Locomotives Other
	2008	OR			Logging Equip Fell/Bunch/Skidders
		PA			Logging Equipment Chain Saws > 6
	2010	RI			Logging Equipment Shredders > 6
	2011 2012	SC SD			Off-Highway Tractors Off-highway Trucks
	2012	TN			Other Agricultural Equipment
	2014	TX			Other Construction Equipment
		UT			Other General Industrial Equipment
		VT			Other Material Handling Equipment
		VA			Pavers
		WA WV			Paving Equipment
		WI			Plate Compactors Railway Maintenance
		WY			Rollers
					Rough Terrain Forklifts
					Rubber Tire Dozers
					Rubber Tire Loaders
					Scrapers
					Signal Boards
					Skid Steer Loaders
					Sprayers
					Surfacing Equipment Swathers
					Sweepers/Scrubbers
					Tampers/Rammers (unused)
					Terminal Tractors
					Tillers > 6 HP
					Tractors/Loaders/Backhoes
					Trenchers

U.S.EPA National Clean Diesel Applicant Fleet Description Spreadsheet References

Deserver				Displacement
Diesel Oxidation Catalyst + B20 Diesel Oxidation Catalyst + B100 Diesel Oxidation Catalyst + B100 Tug Boar/ Tow Boat Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B20 Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B20 Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B100 Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B100 Diesel Oxidation Catalyst + Emulsion Diesel Particulate Filter Closed Crankcase Ventilation Diesel Particulate Filter Diesel Crankcase Ventilation Diesel Particulate Filter Diesel Crankcase Ventilation Diesel Particulate Filter Diesel Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Oxidation Catalyst + USD (for Nonroad only) Diesel Oxidation Catalyst + USD (for Nonroad only) Diesel Oxidation Catalyst + USD (for Nonroad only) Diesel Oxidation Catalyst + Diesel Particulate Filter Diesel Oxidation + Diesel Particulate Filter Diesel Diesel Diesel Diesel Diesel Diesel Particulate Filter Diesel	Technology	Marine Application	Engine Type	
Diesel Oxidation Catalyst + B20				
Diesel Oxidation Catalyst + Closed Crankcase Ventilation +B20 Commercial Fishing 2.5 = size <3.5 Commercial Charter Fishing 2.5 = size <3.5 Commercial Fi	Diesel Oxidation Catalyst + B20	Ferry/Excursion	propulsion	0.9 <= size < 1.2
Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B100 Diesel Oxidation Catalyst + Emulsion Diesel Oxidation Catalyst + Emulsion Diesel Particulate Filter Diesel Particulate Filter Pilot Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Particulate Filter + Closed Crankcase Ventilation Diesel Particulate Filter + Closed Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for Nonroad only) Diesel Oxidation Catalyst + ULSD (for Nonroad only) Partial Flow Filter ean NO, Catalyst/Diesel Particulate Filter Piltra Low Sulfur Diesel (ULSD) Diesel Oxidation Catalyst + Diesel Particulate Filter Diesel Catalytic Reduction Xahaust Gas Recirculation + Diesel Particulate Filter Direct Piltra Low Sulfur Diesel (ULSD) Direct Piltra Low Sulfur Diesel (ULSD) Direct Piltra Low Sulfur Diesel (ULSD) Direct Piltra Low Sulfur Gas Giodiesel (B20) Siodiesel (B20) Siodiesel (B20) Siodiesel (B20) Siodiesel (B20) Direct Piltra Low Conversion Direct Filted Heater Direct Piltra Low Sulfur Gas (CNG) Replacement Ventilate Filter Direct Filted Heater Direct Filted Heat	Diesel Oxidation Catalyst + B100	Tug Boat/ Tow Boat		1.2 <= size <2.5
Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B100 Fishing 2.5-c= size < 5.0 Diesel Oxidation Catalyst + Emulsion 5.0-c= size < 1.5 Diesel Particulate Filter Pilot 15.0-c= size < 2.6 Diesel Particulate Filter Pilot 15.0-c= size < 2.6 Diesel Oxidation Catalyst + Closed Crankcase Ventilation Other 25.0-c= size < 2.6 Diesel Oxidation Catalyst + Closed Crankcase Ventilation Other 25.0-c= size < 2.8 Diesel Oxidation Catalyst + ULSD (for Nonroad only) Diesel Crankcase Ventilation Other 25.0-c= size < 2.8 Diesel Oxidation Catalyst + ULSD (for Nonroad only) Diesel Crankcase Ventilation ULSD (for Nonroad only) Diesel Oxidation Catalyst + ULSD (for Nonroad only) Diesel Crankcase Ventilation ULSD (for Nonroad only) Diesel Oxidation + Diesel Particulate Filter Diesel Crankcase Ventilation Diesel Crankcase Ventilation ULSD (for Nonroad only) Diesel Crankcase Ventilation + Diesel Particulate Filter Diesel Crankcase Ventilation Diesel Crankcase	Diesel Oxidation Catalyst + Closed Crankcase Ventilation +B20			2.5<= size <3.5
Diesel Oxidation Catalyst + Emulsion	Diocal Ovidation Catalyst J. Classed Cranksons Vantilation J. R100			2 F 0i70 F 0
Diesel Oxidation Catalyst + Closed Crankcase Ventilation Other 20.0<= size -28 Diesel Particulate Filter + Closed Crankcase Ventilation Other 25.0<= size -28 Diesel Oxidation Catalyst + Closed Crankcase Ventilation Other 25.0<= size -30 Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for Nonroad only) Diesel Oxidation Catalyst + ULSD (for Nonroad only) Partial Flow Filter 2an NO, Catalyst/Diesel Particulate Filter Belective Catalytic Reduction 2belective Catalytic Reduction 2chaust Gas Recirculation + Diesel Particulate Filter Intra Low Sulfur Diesel (ULSD) Dompressed Natural Gas Diodiesel (B20) Diodie	Diesel Oxidation Catalyst + Closed Clariccase Verification + B100	- 3		5.0<= size <5.0
Diesel Particulate Filter + Closed Crankcase Ventilation Other 25.0 Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for Nonroad only) Partial Flow Filter acan No, Catalyst/Diesel Particulate Filter Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter Diesel Oxidation Catalyst Particulate Filter Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter Dirtus Low Sulfur Diesel (ULSD) Compressed Natural Gas Iquid	Diesel Particulate Filter	Pilot		15.0<= size <20.
Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for Nonroad only) Diesel Oxidation Catalyst + ULSD (for Nonroad only) Partial Flow Filter Belective Catalytic Reduction Schaust Gas Recirculation + Diesel Particulate Filter Belective Catalytic Piesel (ULSD) Dompressed Natural Gas Liquid Natural Gas Joidiesel (B20) Joidie	Diesel Oxidation Catalyst + Closed Crankcase Ventilation	Work Boat		20.0<= size <25.
Diesel Oxidation Catalyst + ULSD (for Nonroad only) Partial Flow Filter Lean NO, Catalyst/Diesel Particulate Filter Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter Iltra Low Sulfur Diesel (ULSD) Oxompressed Natural Gas Liquid Company Liqui	Diesel Particulate Filter + Closed Crankcase Ventilation	Other		25.0<= size <30.
Partial Flow Filter Lean NO, Catalyst/Diesel Particulate Filter Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter Ital Low Suffur Diesel (ULSD) Compressed Natural Gas Liquid Natural Gas Slodiesel (B20) Slodiesel (B20) Slodiesel (B100) Hybrid Electric Replacement with Diesel Particulate Filter Compressed Natural Gas (CNG) Replacement Itelerative Fuel Conversion (erified Engine Upgrade Kit Certified Engine Upgrade Kit Certified Engine Upgrade Kit Certified Remanufacture System Engine Repower Albicle/Equipment Replacement Direct Fired Heater Luxiliary Power Unit Shutdown/Startup for Locomotives Low Rolling Resistance Tires Aerodynamic Improvements Truck Stop Electrification Shore Connection System (Marine) Shore Connection System (Marine) Shore Connection System (Locomotive) Generator Set Satetry Air Conditioning System Thermal Storage Systems Engine Shutdown Lutomatic Tire Inflation Dither Fuel Efficient Tire Single Wide Tires Aero Profile Tractor Lab Side Fairing Lab Front air dam front bumper Cab Foot fairing Trailer Subble Trailer Tails Treigrated Cab roof fairing Lab roof deflector	Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for	Nonroad only)		
Lean NO, Catalyst/Diesel Particulate Filter Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter Ultra Low Sulfur Diesel (ULSD) Compressed Natural Gas Liquid Natural Gas Liquid Natural Gas Biodiesel (B100) Hybrid Electric Replacement with Diesel Particulate Filter Compressed Natural Gas (CNG) Replacement Internative Fuel Conversion Verified Engine Upgrade Kit Certified Remanufacture System Ingine Repower Ingine Replacement Ingine Repower Ingine Replacement Ingine Rep	Diesel Oxidation Catalyst + ULSD (for Nonroad only)			
Selective Catalytic Reduction Exhaust Gas Recirculation + Diesel Particulate Filter	Partial Flow Filter			
Exhaust Gas Recirculation + Diesel Particulate Filter Iltra Low Sulfur Diesel (ULSD)	~ ,			
Ultra Low Sulfur Diesel (ULSD) Compressed Natural Gas iguid Natural Gas Biodiesel (B20) Slodiesel (B100) Hybrid Electric Replacement with Diesel Particulate Filter Compressed Natural Gas (CNG) Replacement Hybrid Electric Replacement with Diesel Particulate Filter Compressed Natural Gas (CNG) Replacement Hitemative Fuel Conversion /erified Engine Upgrade Kit Certified Remanufacture System Ingline Repower /ehicle/Equipment Replacement Direct Fired Heater Auxiliary Power Unit Shutdown/Startup for Locomotives Ow Rolling Resistance Tires Aerodynamic Improvements Fruck Stop Electrification Shore Connection System (Marine) Shore Connection System (Locomotive) Generator Set Saltery Air Conditioning System Infermal Storage Systems Engine Shutdown Automatic Tire Inflation Dither Fuel Efficient Tire Single Wide Tires Aero Profile Tractor Cab Side Fairing Cab Front air dam front bumper Trailer side skirts Frailer side skirts Frailer side skirts Frailer alis Integrated cab roof fairing Cab Foof deflector				
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