Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	214 094	Construction of the	sanyan	sangar. r	anan kap	1000	Link	Allowed Values	the state of the s	Process	Notes/Questions	Originator	Loans	1995	Applicable Business Rules	Validation Rules
Vi-0.5	Process Code	Safes the desired present code for the current submission.	TestVehideInformationS Innraison TestVehideInfor mationDealits	Information ProcessDode	TRUE	1 per Test Vehicle Configuration	Å(1)	Enumeration	1	1				Ne New distant 1 - Chrucklan of Antoling Yanify Salawat	Light-Duty	Cartificatio n Test Data		Manufactu ser I	Front End	XML	LD-CTD-VI-88030 LD-CTD-VI-88031	VLBR3D: If the Proces Cole (VRLS) is equil to °C (Connection) then this walking cannot have any active tasks, for which there are loaded and active Calification Summary (Momilation Report) [258, VLBR3T: If Process Cole (VRLS) is equil to °K (Report) these a sourch must already actif in the system with the same Vahida ID (VLBR3T: If Process Cole (VRLS) is equil to °K (Report) these a sourch must already actif in the system with the same Vahida ID (VLBR3T: If Process Cole (VRLS) and Manufacturer Cole (VRLS).
VH	Manufacturer Code	The 3-charaner signarumed code aragned by CPA to each manufacture. This will be derived on unark CCV sure account	TextVehideInformationSt ImmisionTextVehideInformationBeau	EP AManufactura Code	TRUE	1 per Tea Vehicle Configuration	A(3)	Fixed String	3	3 [A	-20-49[3]				Light-Duty	Certificatio n Test Data		Varity	Front end	XML		V1881: Manufacuar Cade (15-1) mud exist in he speare. V1882: If Manufacuar Cade (15-2) is equal to °C (Derectica) and Original Test Velacits Model Yaar (17-1) is generate their or equal to ST-1, man. A sead on made you is in he speare with the man Velacita (D (15-2) Velacita Cadeparation Number (16-3), and Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1890: The Process Cade (19-5) executi to Y Repect) the Manufacturer Code of the Schmission Autoric Datatismus masch Manufacuar Cade (10-1) of the statism for the two periods sequences. V1800: The Process Cade (10-5) is equal to Y Repect) the Manufacturer Cade of the Schmission Autoric Datatismus muster Manufacturer Cade (10-1) of the statism for the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the manufacturer Cade of the Schmission Autor Datatismus muster Manufacture Cade (10-1) of the statism for the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the nachemist datast.
																						VBR2: If Process Code (VI-5) is equal to 'C (Connection) and Model Year (VI-7) is greater than or equal to 2011, then a second must always each in the system with the same Vahica ID (VI-1). Vahica Configuration (VI-1), and Manufacture Code (VI-1).
VI-2	Vehicle ID	A unique alphanumeric identifier assigned by the manufacturer to each test vehicle.	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails	VehideldentificationText	TRUE	1 per Test Vehicle Configuration	A(20)	String	1	20					Lieht-Dub	Certificatio n Test Data		Manufactu rer l	Front and	XML	LD-CTD-VI-BR002 LD-CTD-VI-BR031	VI-8831: If Process Code (VI-0.5) is equal to 'R' (Report) then a record must already exist in the system with the same Vehicle ID (VI-2), Vehicle Configuration Number (VI-3), and Manufacturer Code (VI-1).
114	Vehicle Configuration	A system-generated number that is assigned to each new unique tost whicle configuration. A mfr code, whicle is, test whicle configuration number can be used for any set study or wapstetualing family, or model year-net just the values enseed into field #s VI-5,VI-6, and VI	TestVehicleInformationSt bmission/TestVehicleInfor mationDetails	VehicleConfigurationNum		1 per Test Vehicle	(40)	Utiling		10					Light-Soly	Certificatio n Test	If VI-3 NEW then done in DB and do not validate. If CORRECT/OAUPOATE then Mtr Code, Vehicle ID, and Vehicle Configuration Number must exist in DB.	Verify if New, otherwise Manufactu I rer i	Back-end if New Front end		LD.CTD.VI.88002 LD.CTD.VI.88028 LD.CTD.VI.88029 LD.CTD.VI.88029	West Sector (1) (1) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
VI3	Number	This entired field may be used by	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCor	ber	FALSE	Configuration	N(2)	Integer				0	99		Light-Duty	Certificatio	Configuration Number must exist in DB.	fer i	f not New	XML	LD-C1D-VI-BR031	(VI-2), Vehicle Configuration Number (VI-3), and Manufacturer Code (VI-1).
VI4	Manufacturer Vehicle Configuration Number	manufacturers to track manufacturers internal designations for configurations. EPA doesn't use this field.	figuration Details/VehicleE escription Details	ManufacturerVehicleConfi gutationNumber	FALSE	1 per Test Vehicle Configuration	N(2)	Integer		[A	HJNPR	٥	99	1	Light-Duty	n Test Data		Manufactu rer l	Front end	XML		VI-BR3: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Test Group Name (VI-
VIð	Original Test Group Name	The actual test group for this test vehicle configuration.	TestVehicteInformationSu bmission/TestVehicteInfor mationDetails/VehicleCor figurationDetails/VehicleC escriptionDetails	TestGroupName	TRUE	1 per Test Vehicle Configuration	A(12)	Fixed string	12	1 9)  9][ 12 9	TV-Y1- (1)[A-2D- (4,11)][0. ][A-2D- [[1,6]]?				Light-Duty	Certificatio n Test Data		Manufactu rer l	Front end	XML	LD-CTD-VI-8R003 LD-CTD-VI-8R005 LD-CTD-VI-8R007 LD- CTD-VI-8R008	5) V1895: The Manufacturer Code (V1-1) must match the manufacturer code embedded in the Original Teer Corup Name (V1-5) V1897: The displacement embedded in the Original Teer Corup Name (V1-5) must be a valid number. V1896: The Original Teer V1045: Model Yaer (V1-5) must match the model yaer embedded in the Original Ecoparation Resulting Parts (V1-6)
VI-6	Original Ev aporativ e/Refueling Family Name	The evaporativa/refueling family for this test vahicle configuration. Not applicable for diesel vahicles.	TestVehicleInformationSc bmission/TestVehicleInfor mationDetails/VehicleCor figurationDetails/VehicleE escriptionDetails	Evaporative Refueling Fam HyName	FALSE	1 per Test Vehicle Configuration	A(12)	Fixed String	12	(A 1 9)) 5 9)1 12	-HJ-NPR- TV-Y1- (1)[A-2D- 9][4][0- [4][A-2D- 9][3]				Light-Duty	Certificatio n Test v Data		Manufactu rer l	Front end	XML	LD-CTD-VI-8R004 LD-CTD-VI-8R006 LD-CTD-VI-8R009	Exepandemicklaning Family Name (V4). 1948): "The Munickaning Card (V-1) must match the manufacturer code embedded in the <mark>Original Exepositive Relations</mark> Family Name (V4). V1889): "The concentrative Card (V-1) must be a Valid problem.
			TestVehicleInformationSc bmission/TestVehicleInfor mationDetails/VehicleCor			1 00/ 10/										0.00					LD-CTD-VI-BR003	VI-BR3: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Test Group Name (VI-5).
VI-7	Original Test Vehicle Model Year	The model year for this test vehicle configuration.	figuration Datails/VehicleD escription Datails	ModelYear	TRUE	1 per Test Vehicle Configuration	N(4)	feartype (1970- 2100)	4	4		1970	2100		Light-Duty	n Test Data		Manufactu rer l	Front end	XML	LD-CTD-VI-8R004	VI-BR4: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Evaporative/Refueling Family Name (VI-6).
VI-8	Represented test vehicle make	The represented test vehicle make (also division name) for this test vehicle configuration.	TestVehicternomations: bmission/TestVehicleInfor mationDetails/VehicleCo figurationDetails/VehicleE escriptionDetails TestVehicteInformationSt bmission/TestVehicleInfor	ActualTestVehicleMakeT ext	TRUE	1 per Test Vehicle Configuration	A(20)	String	1	20					Light-Duty	Certificatio n Test Data	This change must be made on Verify front end and back end web screens	Manufactu rer l	Front end	XML		
VI-0	Represented test vehicle model	The represented test vehicle model (also carline name) for this test vehicle configuration.	bmission/TestVehicleInfor mationDetails/VehicleCor figurationDetails/VehicleE escriptionDetails	ActualTestVehicleModelT ext	TRUE	1 per Test Vehicle Configuration	A(50)	String	1	50					Light-Duty	Certificatio n Test Data	This change must be made on Verify front end and back end web screens	Manufactu Rer I	Front end	XML		
DELETE: VI-10	Vehicle Fuel Category.	Enter the applicable wohlde fuel congry for this text which subgroups	TestVahistehfermationE utensistionTestVahisteh CentigurationDesile	VehicleFusiDategorylden Hier	FALSE TRUE		A(3)	Enumeration						SF-Einige Fuel SF-Einige Fuel SF-Einie Fall bei promited and spatients de tegetien) SF-Einie Fall bei Part of the second spatients that tender- ter and tender frage of the second spatients that tender- second spatients (Fall bei Second Spatients and tender- ter and tender tender tender tender tender SF-Einie Fall bei Second Spatients SF-Einie Central Central Central SF-Einie Central Central Central SF-Einie Leinie Second Spatients SF-Einie Leinie Sfatients SF-Einie Leinie Sfatients	Light Dury	Certificati on Text Data	Same as 70.4. Note: By changing this field to FALSE (optional) is the schema, it would not have could still be used for Model Years 2010 and 2011.	Manufacto Jac d	From and	XML	NEW	NEW: IF Chighen Task Values Model Year (NF) is task than or equal to 1311; Bask Values Faul Cangery (NFR) is required the 1.1 weaking is to advance the Chighen Task Values Model Year (NF) is grown than 1317.
NEW: VI-10.5	Drive Source	Enter the applicable value for the drive source for this test vehicle configuration. Select "I for fuel cell electric vehicle.	TestVehicleInformationS ubmission/TestVehicleIn ormationDetails/Vehicle ConfigurationDetails/Driv eSourceDetails	r Drive Sourceldentifier	TRUE	1n per Test Vehicle Configuration	A(1)	Enumeration						C = Combustion Engine = Electric Motor + Engine (Rush Combustion Engine and Electric Motor)	Light Duty	Certificati on Test / Data	This field is totally new in VI (however it already exists in the Test Croop dataset but the exameration value of "H-Hybrid" is being detexed in all classes). For model years <2012, this field should be mapped from other existing fields which is why it is a required field.	Manufactu rer l	Front End	XML	NA	NA

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tor Collection Collection



Blue = Cer I = Misc Text Edits Changes

Parent's I

XML Tes

Basic Multiplicity Data Type

Data Type Min Max Description Length Length. Pattern Digits Value Value

Pink = TBD EPA Data Element

-			1										_										
Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Change	Red = Misc Text Edits	Blue = Certification Changes																			
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Length	Max_ Length	Pattern Dis	otal Fraction gits Digits	nal <u>Mir</u> i <u>Valu</u>	n <u>Max</u> at <u>Value</u>	Allowed Values	Industry	Process	Notes/Questions	Originator	Collection Point	Collection Type	Applicable Business Rules	<u>Validation Rules</u>
NEW VI-10.6	Hybrid Indicator	Verify assigned based on values selected for Drive Source (VI-10.5	Tes WehicleInformationS ubmission/TestVehicleInf omationDetails/EPAGen eratedTestVehicleDetails	HybridVehicleIndicator	TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							N. No. Y - Yes	Light Dut	Certificati on Test / Data	NEW BE Varify Assigned Rule: If Drive Source (VI-0.3) is equal to "Combustion Endeated (VI-0.6) equals "Ves.", enterwise it equals "No". For mapped from other existing fields which is why it is a required field.	Verity	Back End	Assigned	NEW	
NEW: VI-11.1	Funița)	Ener all applicable hulls for this Net velicle configuration.	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails/Devi eSourceDetails	Fuelldentifier	TRUE	1n per Drive Source per Test Vahicle Configuration	A(3)	Enumeration							0         - Osadina           0         - Statul           - Statul         - Osadina           CR2         - Osadina           CR2         - Osadina           CR2         - Osadina           CR2         - Osadina           - Osadina         - Osadina           - Exection         - Osadina           E Statutina         - Osadina           - Osadina         - Osadina           - Exection         - Osadina           - Osadina         - Osadina           - Osadina	Light-Dut	Certificati on Test / Data	For model years +012, bits field should be mapped from Fuelt and Fuelt Fields which is mitly the a required field. LCD/DVH8091: Set York Justigned Berth Ref a Vield Yaha.	Manufactu rer	Front end	XML	NEW: LD.CTD-VI-68052 NEW: LD.CTD-VI-88053 NEW: LD.CTD-VI-88053 NEW: LD.CTD-VI-88054 NEW: 5	NDW, IF Drive Sharea (1918.3) is equal to "Combustion Engine", Pair (1911.1) can not equal "Electricity" NDW. IF Drive Sharea (1918.3) is equal to "Electric Mane", Pair (1911.1) mait equal "Electricity", "Adebgar", or "Methane", NEW. "25" (Barrey Electric) and "Mo" (in Applicable) are not allow able values for Faeld) (1911.1) 49.81117101.is essa-aite-aite-for for Applicable) are not allow able values for Faeld) (1911.1)
NEW: VI-11.2	Multiple Fuel Storage- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels stored separately or together for this test vehicle configuration?	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	MultipleFuelStorageMet odidantifier	f FALSE	1 per Test Vehicle Configuration	A(8)	Enumeration							S - Fuels Stored Separately T - Fuels Stored Together	Light-Dut	Certificati on Test Data		Manufactu rer	Front end	XML	NEW: LD-CTD-VI-BR035a NEW: LD-CTD-VI-BR035b	NEW. If more than one foot is selected for Fuel(s) (VI-11.) and if Drive Source (VI-10.5) equals "Combustion Engine", then Multiple Fuel Storage (VI-11.2) is required, otherwise Multiple Fuel Storage (VI-11.2) is not allowed.
NEW: VI-11.3	Multiple Fuel Combustion- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels combusted separately or together for this test vehicle configuration?	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	MultipleFuelCombustion MethodIdentifier	FALSE	1 per Test Vehicle Configuration	A(8)	Enumeration							S- Fuels Combusted Separately T- Fuels Combusted Together	Light-Dut	Certificati on Test / Data		Manufactu rer	Front end	XML	NEW: LD-CTD-VI-BR038	NEW. If Drive Source (V140.5) is equal to "Combustion Engine" and if more than one of the combustible fuels is selected for Faulty (V141.1) (Combustible Fixels = Gasoline, Disael, Menhand, Ethanol, CHG, LNG, LPG), then Multiple Fixel Combustion (V141.3) is required and is optional if "Hydrogen" is selected for Faulty) (V141.1).
NEW: VI-11.4	Fuel Cell Indicator	Is this test vehicle configuration equipped with a Fuel Cell?	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	FuelCellIndicator	FALSE	1 per Test Vehicle Configuration	A(1)	Enumeration							N - No Y - Yes	Light-Dut	Certificati on Test Data		Manufactu rer	Front end	XML	NEW: LD-CTD-VI-BR037	NEW: If Drive Source (VI-0.5) is equal to "Electric Mooor", then Fuel Cell Indicator (VI-11.4) is required, otherwise it is optional.
NEW: VI-11.5	Rechargable Energy Storage System Indicator	Is this test vehicle equipped with rechargable energy storage system?	TestVehicleInformationS a ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	RechargeableEnergySto ageSystemIndicator	FALSE	1 per Test Vehicle Configuration	A(1)	Enumeration							N-No Y-Yes	Light-Dut	Certificati on Test Data		Manufactu rer	Front end	XML	NEW: LD-CTD-VI-BR038	NEW: If Drive Source (VI-10.5) is equal to "Electric Moor", then Rechargable Energy Storage System Indicator (VI-11.5) is required, otherwise it is optional.
NEW: VI- 11.6	Rechargeable Energy Storage System <del>-Davies</del>	Enter the applicable type of energy storage device for this test group.	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	RechargeableEnergySto ageDeviceIdentifier	FALSE	1 per Test Vehicle Configuration	A(2) E	Enumeration							B = Bansey(s) C = Capacitor BC = Bunory and Capacitor H = Hydrautic OT = Other	Light Dut	Certificati on		Manufactu rer	Front End	XML	NEW: LD-CTD-VI-BR039	Required I Drive Source (N16.5) equals 👻 (Electric Motor) or Il Hybrid Indicator (V14.8) equals 'yes' or Il Fuel Call Indicator (V14.4) equals 'yes', otherwise not allowed. Required 3.70.4 – 307, 517 or 557.
NEW: VI- 11.7	Rechargeable Energy Storage System, if Other	Enter a description of the energy storage device for this test group "other" selected.	TestVehicleInformationS ubmission/TestVehicleInf if ormationDetails/Vehicle ConfigurationDetails	RechargeableEnergySto ageDeviceOtherText	FALSE	1 per Test Vehicle Configuration	A(30) 5	String	1	30						Light Dut	Certificati on		Manufactu rer	Front End	XML	NEW: LD-CTD-VI-BR040	Required & Rechargeable Energy Storage System (VI-11.8) equals "Other", otherwise optional.
NEW: VI-11.8	Off-board Charge Capable Indicator	Select "Yes" if this test vehicle configuration is equipped with an electric motor that is capable of being charged of-board the vehicle, otherwise select "No".	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails	OffBoardChargeCapabili yIndicator	it FALSE	1 per Test Vehicle Configuration	A(1)	Enumeration							N-No Y-Yes	Light-Dut	Certificati on Test Data		Manufactu rer	Front end	XML	NEW: LD-CTD-VI-8R041	NEW: If Drive Source (VI-10.5) is equal to "Electric Moor", then Of-Board Charge Capable Indicator (VI-11.8) is required, otherwise It is optional.
DELETE: VI-11	Faul-1	Enter the applicable fiel for this- test vehicle configuration	Testifahislehifarmation& ukmission/Testifahislehif ermation/Details/Vehisle Cenfiguration/Details	Fueltidentifee	FALSE		A03	<u>Enumeration</u>							G Constantine Constantine III Constantine Constantine IIII Compared National Class IIII Compared National Class IIII Constantine IIII Constantine 	Light Due	Contilisati an Tost / Doss		Manufactu Ref	Front and	XML	NEW Delete: <del>14 BR15</del>	NEW: 17 Chigaint Tast Vahicia Madal Yaor (197) ia laas daan or aqual ia 2011; daan Fuel 1 (1911) ia naquinal, adamvisa ista Inte Allowed. Taki is anta walat walat aka Fuel 4 ia ia antiyu shifi dar Fuel 4.
DELETE: VI-12	<del>ful 2</del>	Enter the second fust if the "vehicle first category" for this te vehicle second figuration is the fest, ther fuel hybrid, dust fuel, or bifue	TectVehiclehformationS Lutamission/ToctVehiclehf ormationDetails/Vehicle ConfigurationDetails	Fuel2ldemifier	FALSE		*177	Enumeration							H Hastanai E	<del>Ligto Dur</del>	Contilicati on Toca y <del>Data</del>		Hannafastu re <del>r</del>	from en		DELETE: <del>VI DR12</del>	August of Physicia Fact Category - 17, 17, 57 or 57, 50 outsing on allowed
VI-13	Drive Mode While Testing	Enter the applicable test drive code for the way this test vehicle configuration was's to be tested.	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails	TestDriveCode	TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, saar P= Part-Sime 4-wheel drive A = All wheel drive	Light-Dut	Certificatio n Test / Data	2	Manufactu ser	Front end	XML		
		Enter the applicable shift indicator light usage code. One usage code	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon	ShiftIndicatorLightUsagel dentifier	I TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							1 - Not equipped 2 - Equipped, not shifted by SIL 3 - Equipped, shifted by SIL 5 - Equipped, shifted by survey schedule. 4 = No aged components, 4k emission or fuel economy data	Light-Dut	Certificatio n Test		Manufactu	Front end	XML		
VI-15	Aged emission component usage	per test vehicle configuration. Enter the age of the emission control system components (in thousands of miles) or enter '4 – tho aged components' if this test vehicl configuration does not have aged components.	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails	AgedComponentUsageId entifier	i TRUE	1 per Test Vehicle Configuration	A(3)	Enumeration							vehicle was used 50 = 500k aged components used on test vehicle 100 = 100k 120 = 120k 150 = 150k	Light-Dut	Certificatio n Test / Data		Manufactu	Front end	XML		
VI-16	Odometer correction – initial		bmission/TestVehicteInfor mationDetails/VehicteCon figurationDetails/Odomet erCorrectionDetails	CorrectionInitialValue	TRUE	1 per Test Vehicle Configuration	N(7,1)	Decimal				7 1	0.0	9999999.9		Light-Dut	Certificatio n Test / Data		Manufactu Ker	Front end	XML		
VI-17	Odometer correction factor	Enter the multiplicative odometer conection factor.	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Odomet erCorrectionDetails TestVehicleInformationSu	CorrectionFactorValue	TRUE	1 per Test Vehicle Configuration	N(5,4)	Decimal				5 4	0.0	9.9999	4' = System Miles= (Test odometer reading "Correction	Light-Dut	Certificatio n Test / Data	2	Manufactu Ker	Front end	XML		
VI-18	Odometer correction sign	Enter the odometer correction sign- plus or minus.	bmission/TestVehicleInfor	CorrectionSignIdentifier	TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							* = system Minéer (1 sis doorneer reading "Correction factor) + Initial system miles, * = System miles = (Test odorneter reading - initial system miles) * Correction factor.	Light-Dut;	Certificatio n Test / Data		Manufactu Ker	Front end	XML		
VI-19	Odometer Correction units code	Enter the applicable units for the edometer correction factor-miles or illometers. Enter the applicable engine code		CorrectionUnitsCode	TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							M =Miles K = Kilometers	Light-Dut	Certificatio n Test / Data		Manufactu rer	Front end	XML		
VI-20	Engine Code	Enter the applicable engine code assigned by the manufacturer for thi test vehicle configuration. Enter the applicable rated horsepower for this test vehicle configuration. Reference SAE 12723 and SAE J1340.	figuration Details TestVehicleInformationSu	EngineCodeText	TRUE	1 per Test Vehicle Configuration 1 per Test Vehicle	A(14)	String	1	14				_		Light-Dut	Certificatio n Test / Data Certificatio	a a	Manufactu rer	Front end	XML		
		Enter the applicable engine displacement in liters for this test	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon	EngineRatedHorsePower Value EngineDisplacementValu	TRUE	Vehicle Configuration 1 per Test Vehicle Configuration	N(4)	Integer					1	9999		Light-Dut	n Test / Data Certificatio n Test	, ,	Manufactu	Front end	XML		
	Displacement Air Aspiration Method	whicle configuration. In Liters, Enter the applicable air aspiration method for this test vehicle configuration.	figuration Details TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/AirAspira tionDetails	e AirAspirationMethodiden fier	TRUE TRUE	Configuration 1 per Test Vehicle Configuration	N(5,3)	Decimal				5 3	0.00	99.999	NA-Naturally aspirated TC-Turbocharged SC-Supercharged TS-Turbocharged-Supercharged OT-Other	Light-Dut	/ Data Certificatio n Test / Data		Rer Manufactu Rer	Front end	XML XML		

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Certification Changes																			
EPA Data Element Number	Long Name	Description	Parent's Name	XML Teg	Required	Multiplicity	Basic Data Type	Data Type Description	Min Length	Max Length	Pattern 0	fotal Fraction	al <u>Min</u> Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collection Point	Collection Type	Applicable Business Rules	Validation Rules.
			TestVehicleInformationSu bmission/TestVehicleInfor																				
VI-24	Air Aspiration Method if	Enter a description of the air aspiration method if "other" is selected for Air Aspiration Method.	mationDetails/VehicleCon figurationDetails/AirAspina tionDetails	AirAspirationMethodOther	FALSE	1 per Test Vehicle		String									Certificati n Test y Data	2	Manufactu rer		XML	LD-CTD-VI-8R013	VI-BR13: If Air Aspiration Method (VI-23) is equal to 'OT' (Other) then Air Aspiration Method If Other (VI-24) is required, otherwise it
11-04		anistiko kei Aur Augenatuon seemoo.	II ONLA ITALIIS	Text	PALSE	Comparation	4(30)	Sting		30						Light-Duty	y Luiba		Ner	Pront end	MIL	EDCID-HONDI3	n intransmis VI BRI K. If Air Aspinston Method (VI-33) is equal to TC (Tubooharped, SC (Supercharged, TE (Tubo and Supercharged) or OT (Drick, the Number of Air Aspinston Devices (N 3) is equal, charantal in multi be equal to VF (Pasant. VI-BRI F. If Air Aspinston Method (VI-33) is not equal to NK (Nasurally Aspinston), then Number of Air Aspinston Devices (N-25) is required and cannot be equal to V.
			TestVehicleInformationSu bmission/TestVehicleInfor																			LD-CTD-VI-BR014	VI-BR17: If Air Appiration Device Configuration (VI-26) is equal to 'W (Single), then Number of Air Appiration Devices (VI-25) must be '1'.
VI-25	Number of Air Aspiration Devices	If not naturally aspirated, enter the number of Air Aspiration Devices. Default is "0".	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/AirAspira tionDetails TestVehicleInformationSu	AirAspirationDeviceCount	FALSE	1 per Test Vehicle Configuration	N(2)	Integer						99		Light-Duty	Certificati n Test y Data	5	Manufactu	Front end	XML	LD-CTD-VI-8R014 LD-CTD-VI-8R015 LD-CTD-VI-8R017 LD-CTD-VI-8R018	VI-BR18: If Air Aspiration Device Configuration (VI-26) is not equal to 'N' (Single), then Number of Air Aspiration Devices (VI-25) must be greater than '1', if present.
		Enter the applicable air aspiration	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon												N=Single								
VI-26	Air Aspiration Device Configuration	device configuration for this test	figurationDetails/AirAspira tionDetails	AirAspirationConfiguratio nIdentifier	FALSE	1 per Test Vehicle Configuration	A(2)	Enumeration							P=Parallel 8=Series PS≂Both Parallel and Series	Light-Duty	n Test y Data	2	Manufactu rer	Front end	XML	LD-CTD-VI-8R016	VI-BR16: If Air Aspiration Method (VI-23) is equal to TC: (Turbocharged), SC: (Supercharged), TS: (Turbo and Supercharged) or OT (Other), then Air Aspiration Device Configuration (VI-26) is required, otherwise it is not allowed.
		Enter the applicable charge sir cooler (also known as inter-cooler) type for this test vehicle	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon			1 per Test Vehicle									A=Air L=Liquid		Certificati n Test		Manufactu				
VI-27	Charge Air Cooler Type	rype for this bas vehicle configuration. Enter any additional comments about the emission control devices installed on this test vehicle configuration.	figuration Details TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon	ChargeAirCoolendentifier	FALSE	Configuration	A(1)	Enumeration							N=N/A	Light-Duty	y Data Certificati		ner.	Front end	XML	LD-CTD-VI-8R025	VI-BR25: If Air Aspiration Method (VI-23) is not equal to 'NA' (Naturally Aspirated), then Charge Air Cooler Type (VI-27) is required.
VI-28			mationDetails/VehicleCon figurationDetails	EmissionsControlDeviceC ommentsText	FALSE	1 per Test Vehicle Configuration	A(1000)	String	1	1000						Light-Duty	n Test y Data		Manufactu rer	Front end	XML		
VI-29	Curb weight	Enter the curb weight in pounds for this tark vahide configuration. Curb wight is defined as the actual or mfrs estimated weight of the vahide in operational satus with all sandate equipment and weight of level at nominal tark capacity and the weight of optional equipment computed in accordance with CFR86.082-24.	a TestVehicleInformationSu bmission/TestVehicleInfor mationDesailsVehicleCon figurationDestailsVehicleS pecificationsDetails	CurbWeightValue	TRUE	1 per Test Vehicle Configuration	N(5)	Integer					0	14000		Light-Duty	Cartificati n Test y Data		Manufactu Ref	Front end	XML	LD-CTD-VI-8R019 LD-CTD-VI-8R020	vi BR12: Equivalent Teat Weight (VI-30) must be greatert than Curb Weight (VI-30) VI-BR20: Gross Vahidat Weight Baining (VI-32) must be greatert than Curb Weight (VI-30).
VI-30		Enter the ETW, equivalent test weight, in pounds for this sear whick configuration. ETW is defined as the weight within an inertia weight class which is used in the dynamometer testing of a whick and which is based on its loaded vehicle weight or adjusted to adjusted loaded wehicle weight in accordance with the provisions of	TestVehideInformationSu bmission/TestVehideInfor mationDetails/VehideCon figurationDetails/VehideS peoficiationDatails	EquivalentTestWeightVal ue	TRUE	1 per Test Vehicle Configuration	N(5)	Enumeration						14000	1000, 1132, 1150, 1375, 1500, 1232, 1700, 1877, 1000, 1212, 1250, 1275, 1500, 1232, 2700, 1275, 1000, 1212, 1250, 1275, 1500, 1252, 2700, 1275, 1000, 1512, 1250, 1277, 1500, 1250, 1000, 1500, 1000, 1200, 1200, 1100, 11500, 1100, 1200,	Light-Duty	Certificati n Test y Data	,	Manufactu	Front end	XML	LD-CTD-VI-BR019	VI-8113 Equivalent Teat Weight (VI-30) mur bag gearer Bain Cade Weight (VI-29)
		Enter the adjusted, loaded vehicle weight in pounds for this test vehicle																					
		LPHOR. 1803-01. Enter the adjusted, loaded vehicle weight in pounds for this test vehicle configuration. ALVW is defined as the average of the vehicle curb weight and prose vehicle weight rating in accordance with the	TestVehicleInformationSu bmission/TestVehicleInfor			1 per Test Vehicle											Certificati	This field should be system generated. ALVW is defined as the average of the vehicle curb weight and the gross vehicle					
VI-31	ALVW	tating in accordance with the provisions of CFR86.1803-01.	mationDetails/EPAGener atedTegVehicleDetails		FALSE	Vehicle Configuration	N(5)	Integer			Adjus	edLoadedVehi	de 0	14000		Light-Duty	n Test y Data	vehicle curb weight and the gross vehicle weight.	Verity	Backend	Assigned		
		provisions of CP-NBS.1803-01. The loaded vehicle weight in pounds will be calculated by Verify for this test vehicle configuration. LVW is defined as the vehicle cutb weight plus 300 pounds.	TestVehicleInformationSu bmission/TestVehicleInfor			1 per Test Vehicle											Certificati	This field should be system generated. LVW is defined as the vehicle cutb weight + 300					
VI-32	LVW	LVW is defined as the vehicle cutb weight plus 300 pounds. Enter the miss vehicle weight in	mationDetails/EPAGener atedTegVehicleDetails		FALSE	Configuration	N(5)	Integer			ь	adedVehicleW	laig O	14000		Light-Duty	n Test Data	is defined as the vehicle cutb weight + 300 pounds.	Verily	Backend	Assigned		
VI-33	Gross vehicle weight rating (GVWR)	Enter the gross vehicle weight in pounds for this test vehicle configuration. Gross which weight is defined as the value specified by the mfr as the maximum design loaded weight of a single vehicle.	TestVehideInformationBu bmission/TestVehideIonfor mationDeasis/VehideCon figurationDeatis/VehideCon pecificationDeatis/ PecificationDeatis/ TestVehideInformationSu bmission/TestVehideCon figurationDeatais/VehideCon pecificationDeatais/ PecificationDeatais/	GrossVehicleWeightRatin oValue	FALSE	1 per Test Vehicle Configuration	N(5)	Integer						14000		Light-Duty	Certificati n Test v Data		Manufactu Rer	Front end	XML	LD-CTD-VI-BR020	VI BR20: Gross Vehicle Weight Rating (VI-53) must be greater than Curb Weight (VI-29).
			TestVehicleInformationSu bmission/TestVehicleInfor motionDetails@/obiolocon														Continues						
VI-34	NV Ratio	Enter the applicable N/V ratio for this test vehicle configuration.	figurationDetails/VehicleS pecificationsDetails	NVRatioValue	TRUE	1 per Test Vehicle Configuration	N(4,1)	Decimal				4 1	0.0	999.9		Light-Duty	n Test y Data		Manufactu rer	Front end	XML		
			bmission/TestVehicleInfor			1 per Test											Certificati	5					
VI-35	Axle Ratio	Enter the axle ratio for this test vehicle configuration.	mationDetails/VehicleCon figurationDetails/VehicleS pecificationsDetails	AxleRatioValue	TRUE	1 per Test Vehicle Configuration	N(3,2)	Decimal				3 2	0.00	9.99		Light-Duty	Certificati n Test y Data		Manufactu rer	Front end	XML		
VI-38	Transmission Type	Enter the transmission type for this test vehicle configuration.	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Tearamis sionSpecificationsDetails	LightDutyTransmissionTy peldentifier	TRUE	1 per Test Vehicle Configuration	A(3)	Enumeration							k = Automatic Mar = Automatic Mar = Manual SA = Semi-Automatic DYT = Continuously Variable CYT-Selectable Continuously Variable (e.g. CVT with Sedias) DT = Other	Light-Duty	Certificati n Test y Data		Manufactu Rer	Front end	XML	LD-CTD-VI-8R023 LD-FE-GL-8R033 LD-CTD-VI-8R021	v1882. If Despite Date (M.58) is equit to 'Y (Ye), their Technologies Type (M.58) mult is equid to 'Y (Annul), V1 8925. (Maning off), chief about the acapted) filte Transmission Type (G.47) equid X, Y, or CVT, each Te white used for advant to ensure if the lattice for both how its else ref. Technologies Type (G.47) 9926. (The Section V), private (G.47) and the section of the technologies (G.47) and the section of the section of the constraint of the section of the section of the technologies (G.47) and the section of the sect
		Enter a description of the	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon			1 per Test											Certificati						
VI-37	Transmission Type, if "Other" Description	Enter a description of the transmission type if "Other" is selected.	mationDetails/VehicleCon figurationDetails/Transmis sionSpecificationsDetails	LightDutyTransmissionTy peOtherText	FALSE	1 per Test Vehicle Configuration	A(30)	String	1	30						Light-Duty	n Test y Data		Manufactu rer	Front end	XML	LD-CTD-VI-8R021	VI-BR21: If Transmission Type (VI-36) is equal to 'OT' (Other), then Transmission Type Other Description (VI-37) is required.
VI-38	Transmission Lockup	Is the transmission on this test vehicle configuration equipped with lockup?	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Terramis sionSpecificationsDetails	TransmissionLockupIndica	TRUE	1 per Test Vehicle Configuration	A(1)	Enumeration							Y=Yes ₩N0	Light-Duty	Certificati n Test v Data	2	Manufactu Rer	Front end	XML	LD-CTD-VI-8R022	V18R22: If Transmission Type (V138) is equal to 14"; then Transmission Lodup (V138) must be equal to 14 (No).
		Is the transmission on this test vehicle configuration equipped with a creeper gear?	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Tearsmis	TransmissionCreeperGear		1 per Test Vehicle									Y=Yes		Certificati n Test y Data	5	Manufactu				
VI-39	Creeper Gear	a creeper gear? Enter the number of transmission nears on this tast which o	sionSpecificationsDetails	Indicator	TRUE	Configuration	A(1)	Enumeration					+		NeNo	Light-Duty	y Data		No.r	Front end	XML		
VI-40	Number of Transmission Gears	a cheeper gear? Enter the number of transmission gears on this test vehicle configuration. If this vehicle is equipped with a "transmission type" of "CVT", enter "1" for the number o gears.	bmission/TestVehicleInfor mationDetails/VehicleCon f figurationDetails/Transmis sionSpecificationsDetails	TransmissionGearCount	TRUE	1 per Test Vehicle Configuration	N(2)	Integer					1	99		Light-Duty	Certificati n Test y Data		Manufactu Rer	Front end	XML	LD-CTD-VI-BR024	VI 8R24: If Transmission Type (VI-38) is equal to 'CVT' (Continuously Variable), then Number of Transmission Gears (VI-40) must be equal to 'T.
VI-40.5	Test Procedure Dynamometer Coefficients Category	Select all applicable test procedure dynamometer coefficients categories for which target and as coefficients must be specified for thi test vehicle (FTP/Hw, Cold CD, and/or US08). None- Target and as coefficients must be entered for each selected test procedure.	s TestVehicleInformationSu braission/TestVehicleInfor t mationDetails/VehicleCon figurationDetails/VehicleCon etCoefficienDetails	TestProcedureDynamome terCoefficientsCategory	TRUE	1n per Test Vehicle Configuration	A(7)	Fourmeration							Need to change the enumeration list in the schema.) CHE = Cliy/HghwayEvap OxiCO = Codd CO JS06 = US06	Light-Duty	Certificati n Test y Data	Need to add a column to the test procedue table that will be used to cross reference ach test procedure to the 3 sea procedure dyno coefficients categories. This will be used for EPA confinatory testing to select the connect target and set coefficients depending on which tast procedure is going to be conducted by the lab.	Manufactu	Front end	XML		
			TestVehicleInformationSu			1# of selected																	
VI-41	Target Coefficient A	Enter the target A-term coefficient from text trackforce vs. velocity equation for thistest vehicle configuration. (bf)	bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails	TargetCoefficientAValue	TRUE	test procedures per Test Vehicle Configuration	N(6,3)	Decimal				6 3	-1000	999.999		Light-Duty	Certificati n Test y Data		Manufactu rer	Front end	XML		
VI-42	Target Coefficient B	Enter the target B-term coefficient from test trackforce vs. velocity equation for this test vehicle configuration. (bt/mph)	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails	TargetCoefficientBValue	TRUE	1# of selected test procedures per Test Vehicle Configuration	N(6,5)	Decimal				6 5	-10	9.99999		Light-Duty	Certificati n Test y Data	2	Manufactu rer	Front end	XML		

Pini TB	New	ge = Changes Due To / Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Certification Changes																		
EPA Elem	nt.	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Dete Type	Data Type Description	Min Length	Max Length. Pattern	Total Digits	Fractional Min Digits Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator		Collection	Applicable Business Rules	Validation Rules
VI-	Target 0		Enter the target C-term coefficient from test track force vs. velocity equation for this test vehicle	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails	TargetCoefficientCValue	TRUE	1# of selected test procedures per Test Vehicle Configuration	N(7,6)	Decimal			7	6 -10	9.99999		Light-Dut	Certificatio n Test y Data		Manufactu rer	Front end	XML		
	EPA-Ca Load H: 5 Coeffici	forsepower (for C-H-E	Verify calculated total road load horsepower (TRLHPS0) based on C- He Eurget coefficients	TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/EP AGen enabdTestVehicleDetails	TotalRoadLoadHorsepow	FALSE	1 per Test Vehicle		Decimal			3	1 0	99.0		Light Dut	Certificati on Test	Verify will use the following equations for CityHighr ayEv ap Coefficients: Total Read Load Horsepower # (A + Strik - 2500c) / 7.5 Where: ArTarget Coefficient Q(H-42) CrTarget Coefficient Q(H-42) ASTM Konded to 1 decimal Jakae	Verity	Back End		LD-CTD-VI-689642	P. Bat Procedure Dynamous Controlling Computy (144.3) * "CR4" (Dynhighnaydf vagi fan 174 Oskuland Bad Raaf
VI-4		E	EPA derived or manufacturer supplied att A-term coefficient from dynamometer force vs. velocity equation for this test vehicle	TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDatails/TargetS		TRUE	Configuration	N(3,1) N(6,3)	Decimal			6		993.9		Light Dut	Certificatio n Test		Manufactu Rer	Front end		LD-C1D-VI-88042	Call Moragener (N-4.5.) is required, othere is not allowed.
VI-	Set Coe	5 6	supplied set B-term coefficient from dynamometer force vs. velocity equation for this test vehicle	TestVehideInformationSu bmission/TestVehideInfor mationDetails/VehideCon ligutationDetails/TargetS etCoefficientDetails	SetCoefficientBValue	TRUE	1# of selected test procedures per Test Vehicle Configuration	N(6,5)	Decimal			6	5 -10	9.99999		Light-Dut	Certificatio n Test y Data		Manufactu Rer	Front end	XML		
VI-	Set Coe	3	supplied set C-term coefficient from dynamometer force vs. velocity equation for this test vehicle configuration. (bf/mph**2)		SetCoefficientCValue	TRUE	1# of selected test procedures per Test Vehicle Configuration	N(7,6)	Decimal			7	6 -10	9.99999		Light-Dut	Certificatio n Test y Data		Manufactu Rer	Front end	XML		
VI-	Testve			TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails		FALSE	1 per Test Vehicle Configuration	A(1000)	String	1	1000					Light-Dut	Certificatio n Test y Data		Manufactu ser	Front end	XML		

EPA Data Element Number		Description	Parent's Name	XML Tag	Required Multiplicity	Basic Data y Type	Data Type Description	<u>Min</u> Length L	Max Length Pi	Total Fraction attern Digits al Digits	<u>Min</u> Value	<u>Max</u> Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Colle ction	Collec tion Type	Applicable Business Rules	Validation Rules
Fuel Pri	perues	Not required for	test fuel type equal to diese	n, nyarogen or elec	tric.																FP-BR21: If the Process Code (FP-0.5) is equal to 'C' (Correction) then the there cannot be any active task, which reference these fuel properties, that are included which there are in any locked and active Certificate Summary information Reports (CSIs) <del>which reference these Net properties</del> .
FP-0.5	Process Code	Select the desired process code for the current submission.	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is	ainformationProcess Code	TRUE	A(1)	Enumeration	1	1				N = New dataset C = Correction of existing Verify dataset	Light-Duty	Certification Test Data		Manufacture	Front r End 2	XML	LD-CTD-FP-BR021 LD-CTD-FP-BR023	FP-BR23: If Process Code (FP-0.5) is equal to 'C' (Correction) then tehre cannot be an active Test Information Dataset with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (F 1). EP-RR1: Manufacturer Code (FP-1) must exist in the system
																					FP-BR1: Manufacturer Code (FP-1) must exist in the system. FP-BR2: II Process Code (FP-0.5) is equal to R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1).
																					FP-BR19: If the Process Code (FP-0.5) is equal to 'R' (Report) the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (FP-1) of the dataset for which the report was requested.
		The 3-character alphanumeric code assigned by EPA to each manufacturer.																			FP-BR20: If the Process Code (FP-0.5) is equal to 'N' (New) or 'C' (Correction) the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (FP-1) of the dataset for which the report was requested.
FP-1	Manufacturer Code	For mfr tests- this will be derived from user's CDX user account. Otherwise it will	FuelPropertiesSubmission/F uelPropertiesInformationDeta	aEPAManufacturerC	TRUE	A(3)	Fixed string	3	3	A-Z0- 9{3}				Light-Duty	Certification Test Data		Verify	Front 2		LD-CTD-FP-BR002a LD-CTD-FP-BR002b LD-CTD-FP-BR019	FP-BR22: If the Process Code (FP-0.5) is equal to 'N' (New) then a record cannot already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1) FP-BR23: II Process Code (FP-0.5) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Batch ID (FP-2), rue Batch Calibration Number (FP-3), and Manufacturer Code (F- 1).
										-1(-)											PP-BR2: If Process Code (FP-0.5) is equal to 'R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fauel Batch ID (P-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1).
FP-2	Fuel batch ID	Enter the assigned fuel batch ID for this fuel batch.	FuelPropertiesSubmission/F uelPropertiesInformationDeta	ai FuelBatchldentifier	TRUE	A(6)	String	1	6					Light-Duty	Certification Test Data		Manufacture LOD	f/Front end		LD-CTD-FP-BR002a LD-CTD-FP-BR002b	FP-BR22: If the Process Code (FP-0.5) is equal to 'N' (New) then a record cannot already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1), FP-BR22: II Process Code (FP-0.5) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Batch (D) (FP-2), rue Batch Calibration Number (FP-3), and Manufacturer Code (F-1).
							Oung		Ū					Light Doty							FP-BR2: If Process Code (FP-0.5) is equal to 'R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1).
	Fuel calibration	Enter the fuel calibration number for this	FuelPropertiesSubmission/F uelPropertiesInformationDeta	aFuelCalibrationNun											Certification		Manufacture	r/ Front		LD-CTD-FP-BR002b LD-CTD-FP-BR022	FP-BR22: If the Process Code (FP-4.5) is equal to 'N (New) than a record control already with in the system E-10 Blach (D (FP-2), Faul Blach Calibration Number (FP-3), and Manufacturer Code (FP-1), FP-BR23: If Process Code (FP-0) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Blach II (FP-2), rule Blach Calibration Number (FP-3), and Manufacturer Code (F
	number Test Fuel Type	Select the applicable test fuel type for this use batch.	FuelPropertiesSubmission/F uelPropertiesMomission/F uelPropertiesInformationDetails	aTestFuelTypeldent ior	TRUE	N(4)	Enumeration				1	9999	PA INSURVED GARDINE PAIN NURL/VEE DARDINE PAINER INFORMATION CONTINUE NURLER INFORMATION CONTINUE NURLER INFORMATION CONTINUE 		Test Data Certification Test Data		LOD	Front	XML	LD-CTD-FP-BR023	1).
	Fuel batch	Enter the calibration	FuelPropertiesSubmission/F						2] 9] 1] 9]	[1- ]{1}{0- ]{3}{0- ]{3}{0- ]{1}{0- ]{1}{0- ]{1}{0-											
FP-5	calibration effective date	effective date for this fuel batch.	uelPropertiesInformationDeta Is/FuelIdentificationDetails	aBatchCalibrationEff ectiveDate	TRUE	D(8)	Date		2]	K1){0- 9K1} [1- [X1){0- [X3){0- [X3){0- [X3]{0- [X3]{0- [X3]{0-}				Light-Duty	Certification Test Data	YYYYMMDD	Manufacture LOD	/ Front end	XML		
	Fuel batch calibration ineffective date	calibration ineffective date fo	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelIdentificationDetails	aBatchCalibrationInE ffectiveDate	FALSE	D(8)	Date		9] 3]	K1}IO- K1}IO- K1}IO- 9K1}				Light-Duty	Certification Test Data		Manufacture LOD	r/ Front end	XML		
FP-7	Fuel batch calibration date	Enter the calibration date for this fuel batch.	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelIdentificationDetails	aBatchCalibrationDa te	TRUE	D(8)	Date		2] 9] 1] 9] 3]	[1-  {3}[0-  {3}[0-  {1}[0-  {1}[0-  {1}[0-  {1}][0- 9]{1}]				Light-Duty	Certification Test Data		Manufacturer LOD		XML		

EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	<u>Min Max</u> Length Lengt	<u>To</u> Pattern Dic	tal Fraction	<u>Min.</u> Value	<u>Max</u> Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Colle ction Point	Collec tion Type	Applicable Business Rules	Validation Rules
Fuel Pro	perties Carbon weight fraction NMHC	Enter the carbon weight fraction NMHC for this fue	test fuel type equal to diese FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails	ai FractionNMHCMea	FALSE		N(4,3)	Decimal			4 3	0.7	0.9	0.700-0.900 Natural Gas - CWF <sub>NMHC</sub>	Light-Duty	Certification Test Data		Manufacture LOD	r/ Front end	XML	FP BR3	FP BR3: If Test Fuel Type (FP-0) has a Fuel Category equal to 'CNG' (to Fuel Type equals '10' (Natural Cas) or '11' (Compressed Natural Case)) then Category The Category (Compared to the between #.0 and 40.000 This is now disabled.
FP-9	Carbon weight fraction HC	Enter the carbon weight fraction HC for this fuel batch.	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails	FractionHCMeasur	FALSE		N(4,3)	Decimal			4 3	0.7	0.9	0.700-0.900 Natural Gas - CWF <sub>HCNG</sub>	Light-Duty	Certification		Manufacture LOD	r/ Front end	XML	EP-BR4	EP-BR4 If Test Fuel Type (EP-4) is equal to 10: (Natural Gas) or 41' (Compressed Natural Gas) then Carbon Weight Fraction HC (FP-9) is required to be between 0.680 and 0.900 This rule is now disabled.
FP-10	Exhaust carbon weight fraction	carbon weight	FuelPropertiesSubmission/F uelPropertiesInformationDete IISFuelSpecificationsDetails CarbonWeightFractionDetails	ExhaustFractionMe	e FALSE		N(4,3)	Decimal			4 3	0.8 or 0.0	1.0	0.800-1.000 (Methanol) Methanol - CWF <sub>ext</sub> 0.800-1.000 (Methanol blend) Methanol blend - CWF <sub>ext</sub> 0.800-1.000 (California Phase II- California Phase II - CWF 0.000-1.000 - California Phase II CWF <sub>ext</sub>	-	Certification /Test Data		Manufacture LOD	r/ Front end	XML		
	Fuel methanol volume fraction	Enter the fuel methanol volume fraction for this fuel batch.	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails	aMethanolVolumeFi	FALSE		N(4,3)	Decimal			4 3	0.0	1.0	0.000-1.000 (Methanol) Methanol 0.000-1.000 (Methanol blend) Methanol blend.	Light-Duty	Certification		Manufacture LOD	r/ Front end	XML	EP-BR5	FP-BR6 II-Test-Fuel Type (FP-4) has a Fuel Category equal to -CNC (Natural Case) (Nethanel er Mehanel Blend) then Fuel Mehanel Volume Frastier (FP-11) is required to be between 0.000 and 1.000This rule has been deleted.
FP-12	Fuel density	Enter the fuel density for this fuel batch. Units are grams/cu. Ft.	FuelPropertiesSubmission/F uelPropertiesInformationDete Is/FuelSpecificationsDetails	aiFuelDensityMeasu e	FALSE		N(5,3)	Decimal		e	5 3	1.0	40.0	Units are grams/cu. Ft. for gaseo fuels 1.000-40.00 (Natural Gas) Natural Gas - D <sub>kG</sub> Natural Gas (Dual Fue) - D <sub>kG</sub> , D <sub>at</sub>		Certification		Manufacture LOD	r/ Front end	XML.	EP-BR6	FP-BR6II Test Fuel Type (FP-4) has a Fuel Category equal to CNO (Test Fuel Type equals 10: (Natural Cast) or 141 (Compressed Natural Cast) then Fuel Dendy FP-12 is required to be between 16.0 and 26.0 gm/cu-EL. This rule has been disabled.
FP-13	Fuel specific gravity	specific gravity for	FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails	alSpecificGravityMea sure	a FALSE		N(4,3)	Decimal			4 3	Min of set	Max of set	0.719-0.770 (Gasoline) Gasoline - SG California Phase II - SQurd Dissel - NOT RECUIRED 0.790-0.800 (Methanol) Methanol - SG 0.740-0.780 (Methanol blend) Methanol blend - SG 0.723-0.730 (California Phase II) California Phase II - SQurd		Certification / Test Data		Manufacture LOD	t/ Front end	XML	F <del>P 887</del> EP-888 FP-889	FP BR7. II Test Fuel Type (FP.4) has a Fuel Category equal to -0' (Georine) Free Fuel Type equals 1.6, 7, 22, 23, 24, 26, 26, 27, ef 9) hen Fuel Specific Gravity (FP.4) is required to be between 0.700 and 9-790. This rule has been disabled. EP-BR8. II Test Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type required be 14) then Fuel Specific Grave, equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Type (FP.4) has a fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel Type (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Type) (FP.4) has a
FP-14	Fuel net heating value	this fuel batch in	FuelPropertiesSubmission/F uelPropertiesInformationDeta	a NetHeating Value	FALSE		N(6)	Integer				Min of set	Max of set	Units are BTUPound OnitaBit-01000 (Gascine) Gascine (data teal) - NVV, NIVyee, NVV, 00500-01900 (Clease) Deset (uniqe teal) - NVT REQURED 00500-019000 (Network) Methanol (sergle teal) - NVT REQURED Methanol (data) (teal) - NVTe, Nethanol (data) (teal) - NVTe, NVTe, NVTe, NVTE, NV	Vso	Certification (Test Data		Manufacture LOD	i/ Front end	XML	52-8810 52-8811 52-8813 52-8813	PP BR10- II Tool Funt Type (FP 4 has a Fuel Category equal to 'C' (Soussier) (Troot Fuel Type equate 1 4, 7, 22, 23, 24, 36, 26, 27, ce 41) (Soussier) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has been disabled. FP BR12. II Toot Fuel Type (FP 4) has a fuel to be between 1500 and 16000 Fuel. This rule has been disabled.
	Fuel blend carbon weight fraction	this fuel batch.	FuelPropertiesSubmission/F uelPropertiesInformationDeta ISFUelSpecification3Details/ Landon/WeighFractionDetails FuelPropertiesSubmission/F	BlendFractionMea: sure	s FALSE		N(4,3)	Decimal			4 3	Min of set	Max of set	0.835-0886 (Gasalino) Gasoline - OWF 0.864-0772 (Disen) Diseal - NOT REOUIRED 0.3745-0.880 (Methanol blend) Methanol blend - CWF 0.330-0844 (California Phase II) - OWF <sub>Buil</sub> 0.550-0770 (Natural gas- Natural gas- CWF <sub>Bu</sub> 0.335-0886 (Gasoline) Gasoline - CWF California Phase II - CWF <sub>Build</sub>	Light-Duty	Certification Test Data		Manufacture LOD	r/ Front end	XML	FP-88144 EP_8815 FP-8815 EP_8817	EP BRI4: II Test Fuel Type (FP 4) has a Fuel Category equal to 'G' (Sastina) (FE 104 Type equals 1, 6, 7, 22, 32, 32, 55, 82, 72, 64) has Fuel Renet Cathers Weight Forefam (FE 14) is required to be between 9385 and 9.886. This rule is now disabled. FP BRI5: II Test Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Category Category (FP 4) has a Fuel Category equal to 'De' (Category Category (FP 4) has a Fuel Category equal to 'CNG' (Category equal to CAtegory equal to 'D') has reader (FP 4) has a Fuel Category equal to 'CNG' (Category equal to CAtegory equal to 'D') has a Fuel Category equal to 'CNG' (Category equal to the between 0.860 and 0.270 This rule is now disabled.
FP-16	Weight fraction CO2	weight fraction for	uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails	FractionCO2Mease	u FALSE		N(4,3)	Decimal			4 3	0.0	0.3	0.000-0.300 Natural Gas - WF <sub>NG</sub>	Light-Duty	Certification Test Data		Manufacture LOD	r/ Front end	XML	FP BR18	(Test Fuel Type equals '10' (Natural Gas) or '41' (Compressed Natural Gas)) then Weight Fraction CO2 (FP 16) is required to be between 0.000 and 0.300 This rule is now disabled.

Orange = Changes Due New Technologies (Mu Biok = TPD	To Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue=Misc Cutification Changes																	
EPA Data Element Number Long Name	Description	Parents Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Max Length Lengt	Pettern Dis	tal Fraction ats al Digits	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Origin ion ator Point	Collection	Applicable Business Rules	Validation Roles
TI-0.5 Process Code	Select the desired process code for the current submission.	TestInformationSubmiss on/TestInformationDetail	InformationProcessCod	TRUE									N = New dataset C = Correction of existing Verify dataset	Light-Duty	Certification Test Data		Manuf acturer Front /LOD End	XML	LD-CTD-TI-BR027	TI-BR27: If Process Code (TI-0.5) is equal to 'C' then there cannot be any locked and active Certificate Summary Information Reports (CSIs) which reference this test.
7.1.1 Test Number 7.1.2 LOD Test Number	A unique number assigned by Velity to lidentify this set of test info and results. Character 1 is Model Vear, Character 2 - 4 Manufacture rook- be assignment and the sequential test number. For the sequential test other number is a manufacture rise. For EPA confirmation table a unique rook test and the sequential test in the sequence in the sequence test in the sequence is the sequence into and results. This field will be left blank for	TestinformationSubmiss on/TestinformationDetail s TestinformationSubmiss on/TestinformationDetail	TedNumberdentifier	FALSE	1 per lust	A(12) F	Fixed String							Light-Duty	Certification Test Data		Verify end if New otherw Front isa end Auruf not acturer New Front	Assigned if Naw, otherwise XML	LD-CTD-TI-BR002a LD-CTD-TI-BR002b LD-CTD-TI-BR002b LD-CTD-TI-BR003t LD-CTD-TI-BR003t	TaBIC: If Process Code (T10-5) is equal to °C (Connotion) and the Original Model Year (N7) of the associated vehicle is greater than or equal to 2017, then its Tak Minker (T1-5) is equal to °C (Connotion) gread must already and in the agreem. TaBIC: IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is noted and a ready composing record must already exist in the spatial. IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is note all code at TaBIS: IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is not all codes. TaBIS: IF Process Code (T10-5) is equal to CP (T10) is equal to 100° and Process Code (T10-5) is equal to °C (Connotice) and item Tak Minker (T10) is equivid and a composeding scord must already and in the spate.
TI-3 Manufacturer code	manufacturer tests. The 3-character alphanumeric code assigned by CPA to each manufacturer. Form this tests this will be derived from user's CDX user account. Otherwise, it will come from LOD Test Report data. Enter the unique alphanumeric identifier for the tasted whicks	s TestinformationSubmiss	LODT exNumberText	TRUE	1 per wat	A(20) A(3)	String Fixed string	3 3	(A-Z0- 9)(3)					Light-Duty Light-Duty	Centification Test Data		Verify Front LOD end	XML	LD-CTD-TI-8R004 LD-CTD-TI-8R001 LD-CTD-TI-8R003 LD-CTD-TI-8R017 TI-8R14 LD-CTD-TI-8R029	Table E the automicro Manufacture Code (TL3) in one equit to LC0 * Bei LC0 * Fei Lumber (TL2) is not advecd.     Table : Manufacture Code (TL3) in one equit to M payme.     Table : Manufacture Code (TL3) is not equit to M payme of C (Control Code (TL4) in one Code (TL4) is not advecded.     Table : Manufacture Code (TL4) is not advecded one control (TL4) in the Manufacture Code (TL4) is not advecded.     Table : Manufacture Code (TL4) is not advecded one control (TL4) in the Manufacture Code (TL4) is not advecded.     Table : Manufacture Code (TL4) is not advecded one control (TL4) in the most non-     table : Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     Table : Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non-     math the Manufacture Code (TL4) is not advecded one code one code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the Manufacture Code (TL4) in the most non-     math the most non-     math the Manufactu
TI-4 Vehicle ID	previously established in Test Vehicle Information Enter the vehicle configuration number for the tested vehicle new/melk established in	on/TestInformationDetai	VehicleIdentificationTi	TRUE	1 per test	A(20)	String	1 20						Light-Duty	Certification Test Data		Acturer Front /LOD end	XML	LD-CTD-TI-BR003	TaBB2: If Process Code (Tr3) is equal to Y (New) or 'C' (Connection) then the Manufacturer Code (Tr3), Vehicle (D (Tr4), and Vehicle Configuration (Tr3) must match to an angine vehicle connectly in the agreem.
TI-5 Vehicle Configuration #	previously established in Test Vehicle Information	. s	umber	TRUE	1 per test	N(2)	Integer		[1- 2](1)]0- 9](3)]0- 1](1)]0-		0	99		Light-Duty	Certification Test Data		/LOD end	XML	LD-CTD-TI-BR003	(resc), if reduces using (reg) requires in the particle (potentiality) and its minimum control on (reg), remove art (reg) and emission Configuration (f16) must match to an acquire vehicle contently in the space.
TI-8 Test date	Enter the date on which the test was conducted.	TestInformationSubmiss on/TestInformationDetail s/TestDataDetails	TestDate	TRUE	1 per test	D(8)	Date		9](1)[0- 3](1)[0- 9](1)					Light-Duty	Certification Test Data	YYYYMMDD	Acturer Front /LOD end	XML	LD-CTD-TI-BR005	TI-BRS: Text Date (TI-6) must be earlier than or equal to the Submit Date (as determined by the system).
Verify Test Lab ID TI-7 Mill: Test lab site cede	Enter the applicable manufacturer test lab site code that was previously established as part of Manufacturer Information.	a TexInformationSubmiss on/TexInformationDetail s/TexIDataDetails	i TestLaboratorySiteCod	FALSE	1 per test	N(2)	Integer				1	99		Light-Duty	Certification Test Data		Manuf Front acturer end	XML	LD-CTD-TI-BR006	TLRBE: Un he admittent Manufacturer Color (TL3) is equal to LCO' then Manufacturer Text Lab Sile Color (TL7) is not allowed, othermia it is required.
T.6 Test Procedure	Enser the applicable sea procedure for the test constant of the test definition of the test definition of the sea definition of the	Teathbandorðahlan of Teathbanaschtei of arfiteasachtei of arfiteasachtei of arfiteasachtei of Teathbandorðahlandir of Teathbandorðahlandir of Teathbandorðahlandir	Teathucation file Teathucation file	r TRUE TRUE	1 per last	N(2) E N(2) E	Enumeration							LightDuty	Cettification Test Data	Test Procedure Codes 80 (6-Cycle City Rare Test Big Data) and 25 (5-Cycle Mare Test Big Data) and 25 (5-Cycle Marel Code Code Code Code Code Code Antipactical Code Code Code Code Antipactical Code Code Code Code Rate Test Code Code Code Code Code Rate Test Code Code Code Code Code Test Test Code Code Code Code Code Code Test Test Code Code Code Code Code Test Test Test Code Code Code Code Code Test Test Test Test Test Test Test Test	y a Marul Acturel Front AOD end Marul	2046. 2014.	NOV LOCID REPORT DILITE REPORT	NEW // Organi Tau Visiole Model Yaor (VF) (i separt to ar generar then 7017; dans Tau Procedure (TA) (can not be equal to %7 (Bennic Visiole Urban Tauge Tau Visiole Model YAO (ST) (ST) (ST) (ST) (ST) (ST) (ST) (ST)
TI-10 reading	of the test. Enter the units of the odometer reading for thi	s/TestDataDetails	OdometerStartValue	TRUE	1 per test	N(7.1)	Decimal			7 1	0.0	999,999.9	M - Miles	Light-Duty	Certification Test Data		Acturer Front /LOD end Manuf Acturer Front /LOD end	XML		
Ti.11         Odometer units           Exhaust - Evap wat number link         Exhaust - Evap wat           Ti.13         Comparison During FE           Ti.13.5         CREE (ADDR) Indicator	vehicle. Required for evaporative tests. Enter the test number of the corresponding FTP exhaut test. The exhaut test must be entered prior to the evap test. I is this test analytically derived?	on/TestinomationDutais arTestinomationDutai arTestinomationDutais on/TestinomationDutais on/TestinomationDutais arTestinomationDutais arTestinomationDutais arTestinomationDutais arTestinomationDutais	Correction/UnitsCode	TRUE FALSE TRUE	1 per test	A(1) E A(15) A(1) E	Enumenation String Enumenation	12 4 1246					K - Kilonatana NeNo Yu Yes	Light-Duty Light-Duty Light Duty	Certification Test Data Certification Test Data Certification Test Data		AOD end Manuf AOD end Manuf Front acturer end	XML XML XML	LD-CTD-Ti-BR008a	Tables. If Tas Procedures (T48) is an exepositive test (Fee Procedure equal to 23, 24, 27, 32, 34, 37, 34, 43, 44, 47) then the Educate Execution Tas Number Line (T-13) is enjoined and must reference an PTP Exhaust set number that already acids in VMHy, otherwise is a first already.
Addyscally Durived FE CRE Sease Verify Ratt 11-13-8 Newson Analytically Durived FE NEW: CREE - Total Road Lad	Enter the total road loan horsepower at 50 mph (TRLHP50) for the analytically derived tes / vehicle configuration.	TestinformationSubmissionDetains ionTestinformationDetails is/TestDataDetails	AnalysicallyDerivedTe stidentifier	FALSE	1 per test	A(12) F	Fixed String	12 12						LighsDusy	Certification Test Data		Manuf acture Front r end Manuf acture Front	XML	NEW, LD-CTD-TI-BRK53 NEW, LD-CTD-TI-BRK54 NEW, LD-CTD-TI-BRK55	MET IF Organization Trans Values Media Yare (MT) is equal to or generative TRITS and F Analytically Derived FECEEE Induced (N1.3.) is equil to "Yes", the Analytically Derived FECEEE Induced (N1.3.) is equil to an analytically Derived FECEEE Induced (N1.3.) is equin to an analytically Derived FECEEE Induced (N1.3.) is equil to an
NEW: CREE - Total Road Load 11-13.7 Horsepower	not actually tested)	is/TestDataDetails	asure	FALSE	1 per Test	N(3,1)	Decimal			1	0	99.9		Light Duty	Certification Test Data		r End	XML	NEW: LD-CTD-TI-BR056	If Original Test Vehicle Model Year (N-7) is equal to or greater than 2012 and Analytically-Derived FBICREE Indicator (N-15.5) is equal to "Yes", than Analytically-Derived FE / CREE - Total Road Load Horsepower (N-13.7) is required, otherwise it is not allowed.

	Orange = Changes Due To	Green =		Photo Miles																_
Pink = TBD	New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue=Misc Certification Changes			Deally Deal	Days Taxa				1					Collect	Output and an		
EPA Data Element Number	Long Name.	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Max Length Lengt	th Pattern Digi	al Fraction Min. ts al Digits Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Origin ator	Collection Type	Applicable Business Rules	Validation Rules
NEW: TI-13.8	Analytically-Derived FE / CREE - ETW	Enter the equivalent test weight, in pounds for the analytically derived test vehicle. (The analytical vehicle not actually tested)	TestInformationSubmiss ion/TestInformationDetai Is/TestDataDetails	AnalyticallyDerivedEq uivatenfTestWeightMe asure	FALSE	1 per Test	N(5)	Enumeratio n			0	14000	1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 2000, 3125, 3250, 3375, 3500, 3505, 3570, 3875, 4000, 4250, 4500, 4750, 1000, 1550, 5000, 6500, 1000, 1560, 5000, 16300, 11000, 11500, 12000, 14500, 13000, 13500, 14000	Light-Duty	Certification Test Data	(Same enumeration list as ETW (VI-30) from VI dataset)	Manuf acture Front r end	XML	NEW: LD-CTD-TI-BR057	E Original Test Valotis Model Year (Vi7) is equal to or greater than 7017 and AnalyticallyContred FEDREE Indicator (N-1.5) is equal to "Yea", then AnalyticallyContred FE (7012) is equal to regime, observice it is an allowed.
NEW: TI-13.9	Analysically-Derived FE / CREE - N/V Ratio	Enter the applicable NV ratio for the analytically derive detaxt vehicle configuration. (The analytical vehicle not actually tested) Was this test conducted on a 4WD	TestinformationSubmiss ion/TestinformationDetai Isr/TestDataDetails TestInformationSubmissi	AnalyticallyDerivedNV RatioMeasure	FALSE	1 per Test	N(4,1)	Decimal		4	1 0.0	999.9		LighsDury	Certification Test Data		Manuf acture Front r end	XML	NEW: LD-CTD-TI-BR058	r Original Nex Volucia Nodel Your (V-7) is equil to or greater from 2017 and Analytically-Derived FECREE Inductor (N-1.3) is equil to Year', from Analytically-Derived FE (2012: HW Rate (N-1.3) is regained, editore in a lis not advected.
TI-14	4WD Test Dyno	on a 4WD dynomometer? Enter "Y" for yes, "N" for no.	on/TestInformationSubmiss on/TestInformationDetail s/TestDataDetails	FourWheelDriveDynam ometerIndicator	TRUE	1 per test	A(1)	Enumeration					Y = Yes N = No	Light-Duty	Certification Test Data		Acturer Front /LOD end	XML		
TI-15	EPA Dyno Number		TestInformationSubmissi on/TestInformationDetail s/TestDataDetails		FALSE	1 per test	A(4)	String	1 4					Light-Duty	Certification Test Data		Manuf acturer Front /LOD end	XML		11892 Fail Bath Mandataw Cole (115), Fail Bath D (1117) and Fail Calibration Number (1119), Il peaks, mut edenenie a Fail
7140	Fuel Batch Manufacturer Code	Enter the manufacturer code for the owner of the fuel batch used for this	TestInformation Submissi on/TestInformationDetail s/TestDataDetails/FuelBa	FuelBatchManufacturer	FALSE	1 per test	4(3)			[A-Z0- 9](3)				Light-Duty	Certification Test Data		Manuf acturer Front /LOD end	XMI	LD-CTD-TI-BR009	Properties dataset hat exists in the system. 11 BRIA: Not required for test fuel types equal to "Disen17" or Thydrogen", or but procedures for even or "solvatio range whan" or "solvatio range.
	Fuel batch ID	Enter the applicable fuel betch ID for this test.	tchPropertiesDetails TestInformationSubmissi on/TestInformationDetail s/TestDataDetails/FuelBa tchPropertiesDetails		FALSE	1 per test	A(3) A(6)	Fixed String String	3 3	31(2)				Light-Duty	Centrication Test Data		Manuf Acturer Front /LOD end	XML	LD-CTD-TI-BR009	ngenery. TRBR: Fuel Bach Manufacture Cole (T-10), Fuel Bach ID (T-17) and Fuel Calibration Number (T-18), if pream, must reference a Fuel Population dataset that exists in the system. TRBR: - the special contract fuel types equal to "Doesn't arthrophysic", a test previous contract on provident to the strategiest approximation of the special contract of the strategiest and the special contract on the strategiest approximation of the strategiest approximation
		Enter the ennlinable fuel	TestInformationSubmissi														Manuf		LD-CTD-TI-BR009	manufacture
TI-18	Fuel calibration number	calibration number for this test. Enter the applicable diesel adjustment factor	s/TestDataDetails/FuelBa tchPropertiesDetails	FuelCalibrationNumber	FALSE	1 per test	N(4)	Integer			1	9999		Light-Duty	Certification Test Data		Acturer Front /LOD end	XML	TIBRIO	31 BR10. Not required for tear funt types equal to "Discutt" of hydrogen", or tear providents for even or "shorter energy when " or other ange- high may".
TI-18.5	Diesel Adjustment Factor Usage Indicator	to be used for calculation of the certification level for this test.	TestInformation Submissi on/TestInformationDetail s/TestDataDetails	DieselAdjustmentFactor UsageIndicator	FALSE	1 per test	A(1)	Enumeration					U = Upward D = Downward				Manuf acturer /LOD end	XML	LD-CTD-TI-BR028	T1-8628: If Teat Faul Type (T1-9) is equal to '7 (1994 Cert Diesel 300 ppm Suflur) or '19' (2007 Cert Diesel 7-15 ppm Suflur), the Diesel Adjustment Floctor (T1-18.5) is negarized, otherwise it is optional.
New: TI-18.8	Manufacturer Confirmatory Test Indicator	Specify whether this test is a manufacturer confirmatory test required by CAP 2000 regulations.	TestinformationSubmiss ion/TestinformationDetai Is/TestDataDetails	Manufacturer Confirma toryTestIndicator	FALSE	1 per test	A(1)	Enumeratio n					Y = Yes N = No	Light-Duty	Certification Test Data		Manuf acture Front r end	XML	NEW: LD-CTD-TI-BR059	NEW: If Original Test Vehicle Model Year (VI-7) is equal to or greater than 1912; then Manufacturer Confirmatory Test Indicator (TI-18.8) is required for tests being submitted by manufacturers and is not allowed for tests being submitted by LOO.
New:	Original Manufacturer Verify Test Number That Was Confirmed	Enter the original Verify test number that was continued by this test.	Testinformation Submiss ion/TestinformationDetail	OriginalManufacturerC	FALSE		4(13)	Event String						Linte Day	Contribution Text Data		Manuf acture Front		NEW: LD-CTD-TI-BR060 NEW: LD-CTD-TI-BR061 NEW: LD-CTD-TI-BR062	NEW. If Handacture Confirmancy Test Indicator (511.8) is equal to "Yes", then Original Mandacturer Verify Test Number That Was Confined (511.8) is regarded, determine is in or taleword. WWW. Toro Disc (116.1) the starbing admitted match to equal to or tame than the Test Data (514) of the Original Mandacturer Verify Test Number That Was Confirmed (511.8). NEW: Original Mandacturer Verify Test Number Test Was Confirmed (514.5) must exist on a Confirmatory Test Decision Information datas for 4 assaure Verife (514.6) and Verbalic Configuration (514.5) must exist on a Confirmatory Test Decision Information datas
TI-22	Retest indicator	"Yes" is entered any time this test is a retest of a previous test	TestinformationSubmissi on/TestInformationDetail s/TestDataDetails	RetestIndicator	TRUE SALSE	1 per test	A(1)	Enumeration					Y = Yes N = No	Light-Duty	Certification Test Data	If the schema is changed to make this a required field then the new business rule is not needed. However, if the schema is not changed then his new business rule is needed.	Manuf acture r/LOD end	XML	DELETE: <del>3-9815</del> NEW: LD-CTD-TI-BR063	121212: SB811. Site exhibites Mandasone Cate (33) is equit to 100° dan Rosal Indiane (333) is equive. NEX IP Proces Cate (1633) is equit to "two Dasart" and if Origina Tax Twintish Model Yaar (147) is equit to or prave than 2017, the Rest Indicate (162) is required for all loss is admitted by LCD and Mandatarens.
Now : 11-22.1	Manufacturer Verify Test Number That Was Retested	Enter the Verify test number that required this retest.	TestinformationSubmiss isn/TestinformationDetai isn/TestbasDetails	ManufacturerRetestTe stNumberldensfiler	FALSE	1 per test	A(12)	Fixed String	12 12					Light-Duty	Certification Test Data		Manuf acture Front r end	XML	NEW: LD-CTD-TI-BR041 NEW: LD-CTD-TI-BR042	Mer, If Original Test Values Markit Yaor (NT) is equal to or greater than "021" and Filmes Underson (122) is a spart or "Yes", data the spart of the set values of Hanak Underson, solver the the antibacture approximation reverse antibacture YLOD. Were "Spart One" (No set Values and the spart for their films the Test One (14) of the Manufacture YLOD Test Spart Test Reverse (122) ().
TI-23	Retest Reason	Enter the reason for conducting this re-test.	TestinformationSubmissi on/TestInformationDetail s/TestDataDetails	RetestReasonidentifier	FALSE	1 per lest	N(2)	Enumeration					1 - Failed (F) 2 - Void (V) 3 - FE (FE) 4 - Uningeneratiative (U) 99 - Other (OT)	Light-Duty	Certification Test Data		Manuf acture Front r/LOD end	XML	DELETE: 28843 NEW: LD-CTD-TI-88944 NEW: LD-CTD-TI-88945 LD-CTD-TI-8894	11.12.12. Selection determinants introductions: Carls (24) (or equivale to SADF and Almost Inducator (24)) equivale to Sales data function intermediated intermediate (242) (or equivale to 'V' (Fed), then Almost Almoster (242) (or equival. MER: For each submitted by manufactures, Research Razane (242) (or early to equival. MER: For each submitted by manufactures, Research Razane (242).
T1-24	State of Charge Delta Indicator	Does the state of charge meet EPA's end of test criteria? This is required for Hybrid and Fuel Cell vehicles.	TestinformationSubmissi on/TestInformationDetail s/TestDataDetails	ChargeStateDeltaIndic ator	FALSE	1 per test	A(1)	Enumeration					Y = Y46 N = No	Light-Duty	Certification Test Data		Manuf acturer Front /LOD end	XML	NEW: LD-CTD-TI-8R046 NEW: LD-CTD-TI-8R067 DELETE: TLBR13	NEW. Hindrid Indicator (1918.)) or Flad Call Indicator (1911.) is equal to "Fes", then Bane of Charge Dolta Indicator (1924) is required, adversite it is splituit. PELETE: BANE: # Flad Category (N13) equals NV Apartig as TC (Flad Call Banetia), as TRC (Flas Fact Manifolders Bane of Charge Dolt Management 2011) is reported.
	Test Comments		TestInformationSubmissi on/TestInformationDetail s/TestDataDetails	ManufacturerComment Text	FALSE	1 per test	A(1000)	String	1 1000	,				Light-Duty	Certification Test Data		Manuf acturer Front /LOD end	XML		
DELETE THE	AH-Electic Range - Urban	Enter the all electric- scharrenge (in mike):	TestinformationSubmiss ion/TestinformationDebi id/UbinRangeTecDebit te	AllElectricRangeMeas	FALSE		1(4,1)	Decimal						Light-Bury	Certification Test Date	With the new business rule for Task Proceeding field (Tal) that descrit allows field with the table of the table field with not be able to be entred by distent from achieve of a settable distent from achieve of a settable distent from achieve and a settable possible.	Manuf Asture Frank	X	Th-8814	S 1811 - Regined I' fast Procedure (94) spuil: "12" ELECTRIC VENCLE RANCE UTBAN, her allowed offervise.
DELETE 1937	Zessi DC Snorgy Output Urban Tess	Enter the total DC. analy subject for the	TeathdomationSubmiss ion/TeathdomationDeuts MRUbunRangeTeatDeuts ia	ZotalDCOutputMeasure #	FALSE		NJE-SI	Decimal				8000.0		Light Day	Certification Test Date	Nith the new business rule for Test Procedure field (T-8) that descrit allow values of V2 To be selected, this field will not be able to be entered by defeed from achieves on teaching be defeed from achieves on teaching be defeed from achieves, repsy should be assist, there repsy repsy that be possible.	Manuf Adure Frans 4200 and		Ti-BR14	1. Better, Regulared II fast Procedure (164) aquals "12" ELECTRIC VENCLE RANCE URBAN, has aboved otherwise.
DELETE B-38	<del>Total OC Energy Input-</del> Weber Tota	Enter the setal DC- entergy input for the- when set of NMAND	TootinformationSubmics interfactorizationData trafficturing=TestData is	TeralDClog-affesture	FALSE		N(5.1)	Decimal				8000.4		Light Duty	Certification Test Data	With the new business rule for Test Procedure field (T-8) that descrit allow values of 12° x13° to be selected, this field with not be able to be ensured by deleted from chema or database if it is easier. However, they should be deleted from forcend web screens if possible.	Manual acture Front sUCD and	XML	Ti-BR14	Talliti Reginel Fast Procedure (16) equiti 12° (ELECTIC VENELE RANCE URBAN, Not showed esturvise.

Pink = 1	Orange = Changes Du New Technologies (M	To Green = Label/CAFE/GHG	Red = Misc Text Edits	Blue=Misc Certification Changes																	
EPA Du Eleme Numbr	ta tr Long Name	Description	Parents Name	XML Tag	Required	Multiplicity	Basic Data	Data Type Description	Min ength Length	Pattern Dis	stal Fraction alts al Digits	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Origin ion	t <u>Collection</u>	Applicable Business Rules	Validation Rules
DELET 11-30	E NerDCSrpanded Units	Enter the not DC- enter the not DC- the expanded for the action there (in Mildeit)	Testinformation@ubmisss ionToutinformation@ubmiss ionToutinformationDust ionToutinformationDust	NetDCExpendedMean	FALSE		N(5.1)	Docimai					0000.0		LightDuty	Certification Test Data	With the new business rule for Test Procedure (Est) (T-3) that descrit allows field with not be able to be ensured by defend from achemic or database if its askier. However, days should be dealer. However, days should be dealer. However, days should be dealer. However, days head be dealer. However, days h	Manuf schuro Fran schuro end		T-BR14	B-BITLE, Required IT has Procedure (168) equals "12" (ELECTICO VENCLE RANGE URBANS, Not allowed otherwise.
DELET THE	E Tetal AC Energy-Charg Betterise Aller Urban Tr	Entry the total AC- energy-charge of the- batterice after the volume to the time killedmi).	TestinformationSubmics ionTestinformationDesti - GibbianRangeTesDesti 36	TetalACChargeAller8	FALSE		N(5,1)	Decimal					0000.0		Light Duty	Cortification Tool Data	With the new business rule for Test Procedure field (1-8) that desert allow values of 12° or 35 to be selected, this field will not be able to be ensured by deleted from chrome or database deleted from formen or database deleted from formen or database deleted from forment we be screens if possible.	Manuf Ioturo Fran	4 1 XML	T-8814	S-8114. Regined IT isst Procedure (Ra) equals "12" (SLECTIC VEHICLE RANCE URBAN), Not also ed shurvisa.
DELET	E Zetal DC Seorgy-Charg Betterice Aller Urban Te	Enter the total DC- entergy-charge of the- batterice-affective affective Not (in White).	TestindomationSubmiss ion/TestindomationDetail et/UteanRangeTestDetail 44	ZetalDCChargeAllerti More	in FALSE		N(5,1)	Docimal				0.0	0000.0		Light Duty	Contification Test Data	With the new business rule for Test Procedure field (Td-3) but descrit allows field will not be able to be ensued by mirs so it does not need to actually be deleted from actumer or database if it is assisr. However, dwy should be deleted from thormand web screens if possible.	Manud Ioturo Fican	* 	T-8814	188114. Registed If Task Proceedars (16) equals "12" (ELECTRIC VEHICLE RANCE URBAN), Nor allowed utbarwise.
DELET TL-32	E <del>All Electric Range -</del> Highway	Enter the all electric- urban cange (in milde).	To scholarm at lan Submice o ten To scholarm at lan Datai ten tigt way Range To stDe ablie	AllElectric RangeMea	FALSE		<del>N(1,1)</del>	Docimal							Light-Duty	Certification Test Data	With the new loadings rule for Test Procedure field (Tell) that doesn't allow values of 152° or 153 to be salected, this did will not be able to be entered by mirs so it does not need to actually be deleted from actumer or database if it is assisr. However, they should be deleted from formand web screens if possible.	Manud Incture ALOD	e XML	T-8815	S 8814. Registed If Tass Proceedure (16) equals "51" (ELECTRIC VEHICLE RANCE MOMBATY). Not allowed adversion.
DELET T-33	E Tetal-DC Sincery, Output Highmay-Teta	Enter the setal DC- energy extput for the- highway test for- Million)-	Textinformation Submises des Freedonternation Detail texTrightmay/Fange TextDe tails	TetalDCOusputMeasu	. FALSE		<del>N(5,1)</del>	Desimal				0.0	0000-0-		Light Duoy	Cartification Tost Data	With the new lossiness rule for Test Procedure field (Te3) that doesn't allow following the source of the second second mirs so it does not need to actually be deleted from scheme or database if it is easier. However, stay should be deleted from formand web screens if possible.	Manuf Ioluro Fran ILCO ent	t xmL	11-0815	8-8114. Regulard I' Nat Procedure (16) jegunis "13" (ELECTRIC VENCLE RANCE MICHINAT), Natalianud distantias.
DELET	E Tassi DC Energy Input	Enter the total DC- energy input for the- Nghway best (n- Vithing)	Teadinformation Submisso ion Teadinformation Data tea Figure ay Franzo Tea Data	TypalDClaustMessors	FALSE										Light Dury	Certification Test Data	With the new business rule for Test Procedure field (T-8) that descrit allow values of 12° or 31 to be selected, this field will not be able to be entered by deleted from scheme or database if it is assin. However, flav should be deleted from formand web screens if possible.	Manuf Johan Fran		<b>1.6815</b>	Tables, Realing J Tao Pacabar (Rith ands 117 ELECTIC VENCE AMER HONKY), Na Almad almonia.
DELET	E NetDC Expanded	Enter the sol DC- expended for the Nghray bast (in- Vikhing)	TestinformationSubmiss iconTestinformationDetail LeftigewayRangeTestDe	NutDCE spandad Mass	. FALSE		MIE SI	Decimal							Light Duor	Certification Test Data	With the new business rule for Test Procedure field (Tal) that doesn't allow values of 12" or 31" to be selected, this field will not be able to be entered by deleted from scheme or database if its assier. However, days should be deleted from formered web screens if possible.	Mennel Johanno Fran		1-8915	BARILE, Realind IT by Possbary (Re) could "11" ELECTIC VENCLE ANDE HONWY), but showed observice.
DELET	E Bent AC Snorgy Char	Enter the stall AC encerny charge of the encoder of the start the big the start the start the	Testinformation Submises ign/Testinformation Submises isSin	TetalACChargeAkkel	EALOS											Continuing Test Data	With the new business rule for Test Procedure (E4) (T-8) that doesn't allow fold will not be able to be ensured by deleted from scheme or database if it so deleted from scheme or database if its deleted from scheme or database is its deleted from formend web screens if possible.	Manual Free		7.8915	
DELET	E Bentine Alter Ingeneration	Enter the total DC Enter the total DC enter y charge of the batteries about the batteries about the batteries about the	TestinformationSubmiss ionTestinformationSubmiss inRightmayRegeTestDe talls	TetalDCChargetBack	FALSE		NUE-EL	Decimal							Light Duty	Certification Test Data	With the new basiness rule for Test problem of the TCB is a solution of the transmission of TCB is a solution of the field will not be able to be ensured by deleted from scheme or database if it is askin. However, flag shadlab askin. However, flag shadlab possible.	Manuf schure Fran	*****	THERE'S	B.BT.L. Regind I Tus Freedow (16) equit. "17" (LECTIC VERCE ANDE HOMRY), No showed obsrvice,
PHEV TO NEW TI-18.	st Information Only (Test Pr	Enter the number of UDDS/Highway1US06 bags/phases conducted of this test.	UDDS, Highway, US06) TestinformationSubmiss ion/TestinformationDetail sig/PHEVChargeDepletin gTestinformationDetails	TestBagPhaseCount	FALSE	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(2)	Integer				1	33		Light-Duty	Certification Test Data		Manuf acture r end	A XML	NEW: LD-CTD-TI-8R064a NEW: LD CTD-TI-8R064b	NY: Repaired If has Proceeding (Ed) equals "Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting UCCO" (East New York Code = "11") Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting 2 Cooper # PPP ("Int Proceeding Code = "11"), "Charge Depicting UCCO" (East Proceeding Code = "11"),
NEW TI-18:	UDOS/Highway/USO6 Bag/Phase Number	Verify-assigned number for each UDDS-HighwaytUS06 Bag/Phase for this test.	TestinformationSubmiss	TestBagPhaseNumbe	" FALSE	1 Number of UDDS/Highway /US06 Cycles Conducted 1 per test (Test Procedure = Charge Depleting UDDS, History	N(2)	Integer				1	93		Light-Duty	Certification Test Data		Verify From	a XML	NEW: LD-CTD-T-BR094a NEW: LD CTD-T-BR094b NEW: LD-CTD-T-BR094a NEW: LD CTD-T-BR094a NEW: LD-CTD-T-BR094a NEW: LD-CTD-T-BR094a	New Registed II has Procedure (Ed) equals "Deeps Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining 32 Mayor FPBP (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining 32 Mayor FPBP (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141").     "None (fast Procedure (Fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining Sparser").     "Charge Depining Sparser").     "State Code = 141"."Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").     "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141").

Pink = TBD	Orange = Changes Due To New Technologies (Multi	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue=Misc																	
EPA Data Element Number	Long Name	Description	Parents Name	XML Tag	Required	Multiplicity	Basic Data	Data Type Min Description Length	Max Length Pr	attern Digits	raction Min Digits Value	Max Value	Allowed Values	Industry	Process	Notes/Durations	Origin ator	Collect ion Point	Collection Type	Applicable Business Rules	Validation Rutas
NEW: 11-18.4	Recharge Event Energy (kiloWatt-hours)	Enter the actual measured energy (kiloWathours) input to the charger to recharge the vehicle battery for this test.	TestInformationSubmiss     ion/TestInformationDeta     siPHEV ChargeDepted     gTestInformationDetails	s li RechargeEventEnerg Measure	FALSE	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(7,4)	Decimal		7	4 0	999.9999		Light-Duty	Certification Test Data		Manuf acture f	Front end	XML	NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b	NW: Repaired II Test Procedure (164) equals "Charge Depicting UDD" (Test Procedure Code = "11"), "Charge Depicting UDD" (Test Procedure Code = 11"), "Charge Depicting Highwary (Test Procedure Code = "41"), "Charge Depicting ECD1" (Test Procedure Code = "18"), "Charge Depicting ECD (Test Procedure Code = 11"), Historia II in an advance.
NEW: TI-18.6.1	Charge Depleting Range (Calculated miles)	Enter the calculated charge depleting driving range (in miles) as required by 40 CFR XXX.	TestinformationSubmis: ion/TestinformationDea Isr/PHEVChargeDeplesin gTestinformationDetaEs	s ii CalculatedChargeDep etionRangeMeasure	FALSE	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3 0	999.999		Light-Duty	Certification Test Data		Manuf acture f	Front end	XML	NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b	NEW, Registed II Tea Procedeus (Nel equals "Charge Depleting 1000" (Teat Proceders Cole = 1911; "Charge Depleting (1894" (Teat Proceders Cole = 1911; "Charge Depleting Highway (Teat Proceders Cole = 1411; "Charge Depleting (COI) (Teat Proceders Cole = 181) a" "Charge Depleting 32 Depleting PTP" (Teat Proceders Cole = 1411; advanta E IIIs not advand.
NEW: TI-18.6	Charge Depleting Range (Actual miles)	Enter the actual measured charge depleting driving range (in miles) as required by 40 CFR XXX.	TestInformationSubmiss ion/TestInformationDeea y Isr/PHEVChargeDeplesin gTestInformationDetails	s ii ChargeDepletionRang eMeasure	FALSE	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3 0	900.999		Light-Duty	Certification Test Data		Manuf acture f	Front end	XML	NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b	NRI Anaposi Taba Naciona (Rei Agusta Charge Dargening UDIF (Rei Procedus Cata 1911), Charge Darling UDIF (Rei Neurona cata), "NT Charge Rei Agusta (Charge Charge C
NEW: TI-18.7	Equivalent All Electric Range (miles)	Emar the equivalent all electric range as required by California ARB's ZEV procedure.	TestinformationSubmiss ion/TestinformationDeta Is/PHEV ChargeDepletin gTestinformationDetails	s ii EquivalentElectricRa geMeasure	n FALSE	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3 0	999.999		Light-Duty	Certification Test Data		Manuf acture r	Front end	XML	NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b	MRF, Reginal II be Presiden (164) each "Charge Depleting 1000" (Des Presiden Cole - 1911, "Charge Depleting 1004" (Des Resident Cole - 1911, "Charge Repleting Repleting Repleting Cole - 1917, "Charge Depleting 2017) (Bel Presiden Cole - 1917, or "Charge Repleting 20 Depart / 1977; "Des Presiden Cole - 1917, informa is it not allowed.
TI-19	Test ResultEmission Name	Enter al applicable sud maint names (and the size, Nos the list of sait reaching and of sait reaching and concern year and and CREE and Opc-REE and concern year and and concern year and and the CRE and the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size	s s restrictionnais (on Studio s) in a star of f and share basis (of the site of f and share basis (of the site of f and basis)	r asReautridentifier	TRUE	1Total # of Test Result Names In Lais per UDDS Cycle Number (f Test Procedure equals Charge Dapping Laisper Volto Vol	A(16)	Enumeration					n: Unio, Marchardia Series Carlos Martin Series Carlos Martin S	Light-Duty	Cestification Test Data		Manuf acturer /LOD	Front	XML	Mini La Contination (Jupine LCOTI) Refer to All LCOTI Trialer) to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer LCOTI Trialer	TLBD11: The Tas Real-Efficient Name (T1-19) served contain CO-COMP (CO STTP Compacial) or NC-MA14CX-COMP (MAC-HOX STTP Compose). TLBD11: The Tas Real/self-product (COMP (Sec State)) is a served to the Viscout of the Tas Compacy (T1-6) is need to STTP (Tas Real-self-self-self-self-self-self-self-sel
	Test Result/Emission Nama- Continued																			T-13 BRs Continued	1.4023: If Avaiptically Carried FECHE (MEED Instantion (1) 13.5) is require to 19 (b). The Fuel Type (Fig) is one of the should net specific. 33, 43, 44, 44, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (2, 4, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (2, 4, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (3, 40, 71), and the TRE Photohese (3, 40, 70), and
	Test Result/Emission Name- Continued																			Ti-19 BRs Continued	TalGot: It Analysissip Cervine FECREE (JASES) Instance (11-13,5) is equile to 19(6); 10:1 Toolfare 30); 17: EFA Datasetini, 7" (Instantia Universited 100 Ottom); 17: Munites (11-14); 10:2 Ciglocal Universited 19 FXON; 24' (Cold OD Regular Cert); 25' Cide Datasetini, 7" (Instantia Universited 100 Ottom); 17: Munites (11-14); 22' (Equat Universited 19 FXON; 24' (Cold OD Regular Cert); 25' Cide Datasetini, 7" (Instantia Universited 23, 21, 23, 23, 24, 45); No.1 Cert Paramines to a sameting with the Univers; 17-6 Regular Cert, 25' Cide Dataseting, 15' Cide Cide Cold OD Cide Data Elevence of the 19-6 Paramines to a sameting with the Univers; 17-6 Regular Cert, 20' Cide Dataseting, 15' Cide Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Cide Cide Cide Cide Cide Cide
	Test Result/Emission Nama- Continued																			149 Bits Continued	Tables: If Analysically Carlind FERDERE places indicators (11-13) is sequel to 1 (No.1, Teal Foul Type (10) is 22 (23B) Places (1 dealine) and     Tables (1 dealysical) (14) sequels Facility (14) sequels (23, 21, 23, 11, 25, 11, 43), teal Foul Type (10) is 22 (23B) Places (1 dealine) and     Tables (1 dealine)     Tables     Tab
	Test Result/Emission Nama-Continued																				Nex : 17 Bar Chappy (1-12) equals "Camp Depinding" es desermined by the Sar Procedure (1-8), the Tain ResultEnsiste Name (11-1) and Integrated Ange Survey. System Start Start (2-barry Solution Soluton, 5, years Early Salar of Campo Hybrite Soluton, Activat Shall yeard Ange Survey. System Start Start and explored, discrete Sary en an annexe. Shall yeard Ange Survey Soluton Start (1-1), and the start of the Salar Soluton Soluton Soluton Solution Mark (1-1), and the start Solution Name (1-1)) equals to 72 ESE <sup>2</sup> and 1-10 Solution Solution. ANY, IF The ResultStation Name (1-10) equals to 72 ESA (1-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (1-1) and all to be submitted. ANY, IF The ResultStatistics Name (10-10) equals to 72E SAG (1-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (1-1) and all to be submitted. ANY, IF The ResultStatistics Name (10-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is SAG (2-1) equals to 72E SAG (2-1) is SAG (2-1) is submitted, dawn Tair SAG (2-1) and Tai

	Orange = Changes Due To New Technologies (Multi	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue=Misc																	
Pink = TBD EPA Data Element Number	Foals, PHEV)	Changes	Red = Misc Text Edits Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Max	Pattern Di	tal Fraction	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Origin ator Point	Collection Type	Applicable Business Rules	Validation Rules
		Enser the unounded test weak for each amision man for this set. Enhand er drist set. Enhand er drist set. I a units of grams per test mission neutral mark the in units of grams per test. grams per gallon of faal digensel.				1Total # of Test Result Names in Enumeration List per UDDS Cycle Number (# Test Depleting UDDS, Highway, UDS0) else 1Total # of Test															
T1-20	Unrounded Test Result	in units of grams per test. ORVR must be in units of grams per gallon of fuel dispensed.	TestInformationSubmiss on/TestInformationDetail s/TestDataDetails/Emissi onTestDataIts	l UnroundedReaultValue	TRUE	Result/Emissio n Names in Enumeration List	N(11,7)	Decimal		1	1 7	0	9999.9999999		Light-Duty	Certification Test Data		Manuf acturer Front /LOD end	XML		
NEW 11-20.5	Fuel Economy Value Unit	Enter the applicable unit of measure for the entered full economy value(s). CNO vehicles aboutd select fixed economy units of "MPG".	TestinformationSubmiss lor/TestInformationDeta la/TestDataDetails TestInformationSubmiss lor/TestInformationDeta	i PustEconomyVabueUr ddenoffer	FALSE	1 per Test	A(8)	Enumeratio	3 8					NPO = niles per gallon (default) NPX = niles per Slargram XP4HITIOMEES = kliowath-hour per eile	Light-Duty	Certification Test Data	FE Units might be changing with the new FE Label rule	Front Mfr End	XML	NEW: LD-CTD-TI-BR038 NEW: LD-CTD-TI-BR039 NEW: LD-CTD-TI-BR040	NEW. If Original has Vehicle Model Year (NVT) is signal to or greater than 2012 and 2 any values astronated for has Republication Name (RVT) is equal to WFR FC + VE Bol Y = VF Bol Y = VF Bol Y = VF Bol Z + VF Bol Z + VF Bol Y = VF
NEW 11-20.6	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value EPA Confirmatory Test E	mile per gallon equivalent for non-MPG fuel economy values Exhaust Emission Cert I	ormationDetails/EPAGe neratedEmissionTestDe ails Level Information	t FuelEconomyMPGEqu ivalentValue	FALSE	1 per Test Result/Emissio n Name	N(11,7)	Decimal			1 7	0	9999.9999999		Light-Duty	Certification Test Data		Verify Back End	Assigned		Galone Espirations Value (13:20.5) equations the value submitted for Unrounded Test Result (15:20) if the Test Result/Emission Name (11:19) is equal to MRR FE' or 'FE BAO 1' or 'FE BAO 2' or 'FE BAO 3' or 'FE BAO 4'.
TI-38		very win isolate and unnounded user traulists for unnounded user traulists for the state test number of digits phase one comesponding emission standard (thore was escolated in contaction). Then have the DF applied (that was entence to () to calculate the () to calculate the distance of the state of the applied (that was entence to () to calculate the distance of the state of the distance of the state of the state of the calculate the distance of the state		s 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d FALSE	1 for each provided unrounded emission result (via teat number) for which a corresponding emission standard is provided on the CT Supplemental Information.	N(11.7)	Decimal		1	1 7	0	9900 9999090		Light Duty	Certification Test Data	Must wa ASTM konding methodology Don't read tengagata direp-baos, signal sa taba ang dang Wan- Nasa ang dang dang dang dang dang dang bagi sa tabagata dang	Back Veifty End	Asignad		
NEW 11-19-5	Verily-Calculated CREE	Verfly-calculated carbor related activate optional carbor-selated exhaust emissions vaakaly with deterioration factors optional.	Teadhormation Submis Ieo/TeathormationSub IsiEFAGourraetaGeo	carbonRelate dE share	e FALSE	1 per Tess	N(11,7)	Decimal			1 7	0	9999 9999999		LighsDuty	Certification Test Data	This data structure to supported in the share Proteins. CREE or operator CREE will be CREED and the comparison of the support of the comparison of the support CREED and the comparison of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the supp	Verify Back	Assigned		Not for DP software year. J Process code (S-L) is even in "the Casas" and (Copyral Bar White Made Yay (Cr) Is each software and active used exception of the software in the two casas" and is copyrate the transition of the Copy State (S-L), "S PER DEC. IS COPY EXAMPLE TEXT) or YWY, has Very Casades CRES or Opcides (15:45) is each of the Very State of the other of
NEW 11-13-6	Verily Calculated Ops CREE	Verify-sissand opional carbon-sized exhaust emission value with deterioration	TestiformationSubmis ior/TestiformationSubmis INEPA Generate(Section Intel A Generate(Section)	OptionsiCarbonRelate dE-hatsEmissionVa se	FALSE	1 per Test	N(11.7)	Decimal		1	1 7	0	\$200.000000		Light-Duty	Cartification Test Data	This data stemant is supported in the first Palaesan. ORE or optional CREE will be acclusted by Virty (Palae) CREE on protocol (Palaesan) CREE on protocol (Palaesan) CREE on protocol (Palaesan) Manual CREE on the protocol optional CREE (Palaesan) Manual CREE on the protocol optional CREE (Palaesan) Manual CREE and Optional Manual Man	Verify End	Assigned		NPF. For IPA confirmatory tasts. If Process Code (IR-8) is again to "New Dataset" and if Original That Variation Bookt Year (Vi-7) is equal to regardless that TS status - TS experience (TS - 4) is equal to "Proce Dataset" and if Original That Variation (R) (For TS - 4) and (Fo
TI-39	Certification Level	Verify will calculate cert levels for EPA confirmatory tests by applying the DF submitted in the Supplemental Information dataset to each rounded emission result.	TextinformationSubmiss on/TextinformationDetai stEPAGeneratedTextinfor mationDetails/EPAGener atedExhaustDetails	é ir r CalculatedCertification LevelValue	FALSE	1 for each calculated Rounded Emission Result	N(8,4)	Decimal			8 4	0	9999.9999 (note- one additional ligit was added to the left of the decimal)		Light Duty	Certification Test Data	Verify BE Rule: NEW: If Test Category (T 43) = "00" (Charge Depleting), then Carificato Level (Ti-39) is not to be calculated.	Back Verify End	Assigned	NEW	
TI-40			TasthomasionSudminis or TasthomasionDouts of PADanament and Statistic PADanament and Statistic adordbatastatist	s 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FALSE	1 for each calculated Con Level	A(4)	Enumeration						Paur - Carl Levil -> Standard Fail - Carl Levil -> Standard	Light Duty		Worky DE Duck HE'M: If You Providence (TH) is equily an 'Charge Deploying (DE) 'Tell Processor (Date + 13), 'Charge Ducking Hydraw', Tfan 'Dange Ducking Hydraw', Tfan (Date + 13), Sen Carlon and Hydraw (Date + 13), Sen Carlon	Vedly End	Asigned	NEW NEW	

Office of Transportation	and Air Quality
	6/4/2012

Pink = TB	Orange = Changes Due T New Technologies (Mult Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue=Misc Certification Changes																	
EPA Data Element Number	Long Name	Description	Parents Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Max ength Length	Pattern Dig	tal Fraction its al Digits	n <u>Min</u> s Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	igin ion tor Poi	nt Type	Applicable Business Rules	Validation Rules
TI-41	Rounded Emission Result	official certification levels.	k na h	r r RoundedEmissionResu	f FALSE	1 for each provided unrounded emission result (via test number) for which a corresponding emission standard is provided on the CSI.	N(11,7)	Decimal		1	1 7	0	9599, 99999999		Light Duty	Certification Test Data	Murz van ASTM sounding methodology. V	Ba: aify En	ik d Assigned		
T1-42	Cert Level	Verify will calculate cer levels by applying the D to each rounded emission result.	t on/TestInformationSubmisa t on/TestInformationDetai DF s/EPAGeneratedTestInfo mationDetails/EPAGene atedEvaporativeDetails	r CalculatedCertification	FALSE	1 for each calculated Rounded Emission Result	: N(8,4)	Decimal			4		9999.9999 (note- one additional digit was added to the left of the decimal)		Light Duty	Certification Test Data	v	Bas affy En	sk d Assigned		
Ti21	Certification disposition code	confirmatory tests only.	90 15 16 11	r r CertificationDisposition Code	FALSE	1 for each calculated Cen Level dois at feast one	A(4)	Enumeration	id test cateogry.					Peer-Certivel - Socied Fail-Certivel - Socied	LightDuty		Verify will compare the Calculated Care Level with the companying standard and will be the August Michaeut to the theory of the Calculated Standard Standard and a calculated Standard Standard Standard Hard Care Landard Standard Standard Standard Hard Care Landard Standard Standard Standard Teal: Teal: Long of calculate and the LOD confinitency tasks not for tasks anomatic by the mit. The particulated calculation for LOD confinitency tasks not for tasks anomatic plantard standards of the standard Careford Standa	Bat affy en			
Ti-43	Test Catagory	This field will automatically be filled band on the tait person's year. The second with the second with the second second with the second second second required for these second categories.	TestInformationSubmiss	TestCatagorykšentilie	TRUE	5 per test	A(6)	Enumeration						PTP - Tacked Tar Rockher GRI - 1958 CO3 - 500 WT - 1959an XA CO3 - 500 WT - Spicas XA CO3 - 500 WT - 500 W	Light Duty	Certification Test Data	The label of all constrained by the filled hand on the supportance (p. 1-Tar 2 and	Bat Affy En			
TI-44	Test Fuel Category	This field will automatically be filled based on the Test Fuel Type (TI-0) in "Test" section) associated with the test number. A valid test number is nequired for these fuel categories.	TestInformationSubmiss	i r TestFuelCategoryldent fier	i TRUE	1 pertest fuel type	A(3)	Enumeration						Electricity     CNG = Natural Gas     D = Disael     E = Ethanol     G = Gasoline     H = Hydrogen     LFG = LFG     W = Methanol	Light Duty	Certification Test Data	$\begin{array}{l} \textbf{H}=\textbf{E}_{1}=62\\ CN0=10,41\\ D=9,19\\ E=36,37,38,43,44,45,71\\ G=1,6,7,8,22,23,24,25,26,27,61\\ H=50\\ LPO=42\\ M=31,32,33,34 \\ V\end{array}$	Back arity d	en Assigned		
NEW: TI-45	Test 5-Cycle Category		Tes&nformationSubmiss ios/TestinformationDeta Isi/EFAGeneratedTestin ormationDetails	Test5CycleCategoryfd nolfer	TRUE	1 per last procedure	A(5)	Enumeratio						(1975) = Padata Tac Proceeders (13. V) (1975) = Ander Tac Proceeders (13. V) (1975) = Uson (1975) (2015) = Uson (1976) (2015) = Mit School (2015)	Light Duty	Certification Test Data	The field will automatically be filled tasked on the strip processing (n - That's section) associated with the strip number. A valid task tasked with the strip section associated with the strip section associated with the strip section associated associated associated (1977) = 1, 25, 31, 35, 41, 45 (1977) = 5, 27, 25, 31, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 45 (1977) = 5, 27, 27, 27, 37, 37, 37, 37, 37, 37, 37, 37, 3	Bac	k d Assigned		

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHFV)	Green = Label/CAFE/OHG Channes	Red - Misc Text Felix	Rive - Misc Certification Channes																
Data elemen							Basic Data Dat	ta Type	din Max		Total onel	Min Me					Originat	Collecti on. Collecti		
number Manufac	Long Name urer Confirmatory Test Decisi Vehicle Information	Description.	Parert's Name manufacturerConfirmatoryTestDescisionInfo	XML Tap.	Required.	Multiplicity		cription. Le	ngth Lergth	Pattern	Digits Digits	Value, Val	ue, Allowed Values.	Light Duty	Process	Notes/Questions	a	on Collecti Point n Type	Applicable Business Rule	L. Validation Rulas
		Select the desired process code for	main accurate community ( carola carolina o			1 per Conf Test							Look-up Values. N = New dataset							
DI-0.5	Process Code	Select the desired process code for the current submission.	DecisionInformationSubmission/DecisionInformationDetails	InformationProcessCode	TRUE	Information	A(1) Enur	meration	1 1				N = New distrist C = Correction of existing Verify dataset	Light-Duty	Confirmatory Test		cturer	Front End XML		
																				DI-BR1: Manufacturer Code (DI-1) must exist in the system. DI-BR4: The Manufacturer Code (DI-1) must match the manufacturer code embedded in
																				the Test Group (DI-7). DI-BRS: The Manufacturer Code (DI-1) must match the manufacturer code embedded in
																				the Evaporative/Refueling Family (DI-8).
																				DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI- 4), and-Manufacturer Code (DI-1), and Model Year (DI-5).
																				DI-BR11: If the Process Code (DI-0.5) is equal to TV (New), the Manufacturer Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (DI-4) must reference a vehicle currently active in the system.
																				DI-BR16: If the Process Code (DI-0.5) is equal to 'R' (Report) , then the Manufacturer Code of the Submission Author Datails must match the Manufacturer Code (Di-1) of the dataset for which the report was requested.
		The manufacturer code will be determined from the data submitter's																	LD-CFT-DI-BR001 LD-CFT-DI-BR004	DI-BR17: If the Process Code (DI-0.5) is equal to 'N' (New) or 'C' (Correction) then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (Di-1) of thesubmitted datases.
		determined from the data submitter's CDX user login profile. The manufacturer code is an alpha- numeric code which identifies a															CDX		LD-CFT-DI-BR005 LD-CFT-DI-BR010a LD-CFT-DI-BR011	DI RE11: Il Resource Code (DI 0 E) is count to 34 direct these a second assess already
DI-1	Manufacturer code	unique vehicle manufacturer. This code is assigned by EPA during the manufacturer senistration numers.	Danision Information Schmission (Danision Information Datails	EPAManufacturerCode	TRUE	1 per Conf Test Decision	A/21 5	lting		(A-Z0- 9)(3)				Light Duty	Confirmatory Test		From Users	Front XMI	LD-CFT-DI-BR016 LD-CFT-DI-BR017 LD-CFT-DI-BR019	exists in the system with the same Vehicle ID (Vel), Vehicle Configuration (ID-4), and Manufacturar Code (DI-1) and Model Year (DI-5), unless it is in the "Waived", "Completed" or "Deleted" states.
		The manufacturer name will be looked up from the Manufacturer			Thus.		<i>164</i>	All the		- 14				-9						
		Info table in Verily using the manufacturer code from the data submitter's CDX user login profile. The manufacturer name is the name																		
		The manufacturer name is the name of the vehicle manufacturer that is associated with the manufacturer				1 per Conf Test Decision												Pre- Back Existing End Data		
DI-2	Manufacturer Name	code. Enter the applicable test vehicle identification number for this set of	NIA	NA	FALSE	Information	A(40) S	String	1 40					Light Duty	Confirmatory Test		Verify	End Data		DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Record) or 'C' (Correction), then a record
		confirmation test decision information. The vehicle ID is a unique, manufacturer-defined, alpha- numeric identification number that is																		must already exist in the system with the same Vahicle ID (DI-3), Vehicle Configuration (DI- 4), and Manufacturer Code (DI-1), and Model Year (DI-5).
		numeric identification number that is assigned to each manufacturer test vehicle. The combination of test																		DI-BR11: If the Process Code (DI-0.5) is equal to 'N' (New), the Manufacturar Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (DI-4) must reference a vehicle currently active in the system.
		vehicle ID and vehicle configuration																		
	Vehicle ID	established in Verify's Test Vehicle Information database prior to submitting its confirmatory test				1 per Conf Test Decision											Manufa	Front End XML	LD-CFT-DI-BR010a LD-CFT-DI-BR011 LD-CFT-DI-BR019	DI-BR10: II Process Code (D14.5) is equal to 'N (New), then a record cannot already exist in the system with the same Vehicle II (D1-3), Vehicle Configuration (D1-4), and Manufacture Code (C1-1) and Model Year (D1-5), unless it is in the "Waived", "Completed" or "Deleted" states.
DI-3	Vehicle ID	decision information.	DecisionInformationSubmission/DecisionInformationDetails	VehicleIdentificationText	TRUE	Information	A(20) 5	String	1 20					Light Duty	Confirmatory Test		cturer	End XML	LD-CFT-DI-BR019	
		Enter the approxime test vende configuration number for this set of configuration number for this set of information. The vehicle configuration number is used to denote multiple configurations of a single test vehicle ID. The set																		DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI- 4), emet Manufacture Code (DI-1), and Model Year (DI-5).
		configuration number is used to denote multiple configurations of a circle text which ID. The																		1, and animation Code (01-1), and another real (01-0). DI-BR111 If the Process Code (01-0.5) is equal to 'N' (New), the Manufacturer Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (01-4) must reference a vehicle
		vehicle configuration number																		currently active in the system.
		Varify's Test Vahicle Information database prior to submitting confirmatory test decision				1 per Conf Test Decision											Manufa	Fourt	LD-CFT-DI-BR010a	DI-BR10: II Process Code (D14.5) is equal to 'N (New), then a record cannot already exist in the system with the same Vehicle II (D1-3), Vehicle Configuration (D1-4), and Manufacture Code (C1-1) and Model Year (D1-5), unless it is in the "Waived", "Completed" or "Deleted" states.
DI-4	Vehicle Configuration #	information.	DecisionInformationSubmission/DecisionInformationDetails	VehicleConfigurationNumber	TRUE	Information	N(2) Ir	neger	1 2			0 91	2	Light Duty	Confirmatory Test		cturer	End XML	LD-CFT-DI-BR010a LD-CFT-DI-BR011 LD-CFT-DI-BR019	
																				DI-BR2: The Model Year (DI-5) must match the model year embedded in the Test Group (DI-7).
																				DI-BR3: The Model Year (DI-5) must match the model year embedded in the Evaporative/Refueling Family (DI-8)
																				Di-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vahicle ID (DI-3), Vahicle Configuration (DI- 4), and Manufacturer Code (DI-1), and Model Year (DI-5).
						1 per Conf Test													LD-CFT-DI-BR002 LD-CFT-DI-BR003	DI-BR19: If Process Code (DI-0.5) is equal to 'N' (New), then a record cannot already
DI-5	Model Year	Enter the base model year for which the vehicle is being tested.	DecisionInformationSubmission/DecisionInformationDetails	ModelYear	TRUE	Decision Information	D(4)	Date	4 4			1970 205	50	Light Duty	Confirmatory Test		Manufa cturer	Front End XML	LD-CFT-DI-BR010a LD-CFT-DI-BR019	exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI-4), and Manufacturer Code (DI-1) and Model Year (DI-5), unless it is in the "Waived", "Completed" or "Deleted" states.
		The represented test vehicle make	ToesVahielobelermationSubmission/ToesVahieledelermation-			1 per Conf										VI-8 This change must be made on Verify front end		Pre-		
NEW DI-5.5	tepresented test vehicle nake	(aka division name) for this test vehicle configuration.	Denamarvenick ConfigurationDenalis/Vehick/DescriptionDeta- its	ActualTestVehicleMakeText	TRUE	Test Decision Information	A(20) S	string	1 20					Light-Duty	Confirmatory Test	and back end web screens but no changes are needed to the XML Schema VI-9	Verify	Back Existin End Data	a n/a	Na
NEW	Represented test vehicle	The represented test vehicle model (aka carline name) for this test	Toes Vahiele Mermation Submission / Toes Vahiele deformation - Detaile Mehiele Configuration Detaile Mehiele Decertories Data			1 per Conf Test Decision										This change must be made on Verify front end and back end web screens but no changes		Pre- Back Existin		
DI-5.6	nodel	vehicle configuration. Enter the actual carline/model name represented by this test	##	ActualTestVehicleModelTest	TRUE	Information 1 per Cord Test	A(50) S	String	1 50					Light-Duty	Confirmatory Test	This change must be made on verify iron and and back end web screens but no changes are needed to the XML Schema This change must be made on Verify front end	Verify	End Data	nla	Na
DI-6	Actual Vehicle Model Name (Carline)	name represented by this test vehicle.	DecisionInformationSubmission/DecisionInformationDetails	VehicleModelText	TRUE	Information	A(50) 5	Btring	1 50					Light Duty	Confirmatory Test	and back end web screens but no changes are needed to the XML Schema	cturer	Front End XML	+	DI-BR2: The Model Year (DI-5) must match the model year embedded in the Test Group
										(A-HJ- NPR- TV-Y1-									1	(DI-7). DI-BR4: The Manufacturer Code (DI-1) must match the manufacturer code embedded in
		Enter the test group for which this set of confirmatory test decision								9](1)[A- Z0- 9][4,11										the Test Group (DI-7). DI-BR8: The displacement embedded in the Test Group (DI-7) must be a valid number.
		or continued y test backson information will be used to demonstrate compliance with the applicable exhaust emission				1 per Conf Test Decision				9[[4,11 )([%][A- Z0- 9[[1,6]]							Manufa	Front	LD-CFT-DI-BR002 LD-CFT-DI-BR004 LD-CFT-DI-BR006 DI-BR7	DE BR7: For model years 2010 and later, the industry code embedded in the 5th character of the Test Group (DK7) must reference a valid industry code
DI-7	Test Group	standards.	DecisionInformationSubmission/DecisionInformationDetails	TestGroupName	TRUE	Information	A(12) 5	String	12 12	2	+	-+		Light Duty	Confirmatory Test		cturer	End XML	DI BR7	
																			1	DI-BR3: The Model Year (DI-5) must match the model year embedded in the Evaporativa(Refueling Family (DI-8)
										(A-HJ- NPR- TV-Y1-										DI-BRS: The Manufacturer Code (DI-1) must match the manufacturer code embedded in the Evaporative/Refueling Family (DI-8).
		Enter the evaporative/refueling family for which this set of confirmatory test decision information will be used to								9](1)[A- Z0-									1	DI-BR8: The cariater working capacity embedded in the Evaporative/Refueling Family (DI- 8) must be a valid number.
	Evaporative/Refueling	demonstrate compliance with the applicable evaporative/refueling				1 per Conf Test Decision				9](4)(0- 9](4)(A- 20-							Manufa	Front	LD-CFT-DI-BR003 LD-CFT-DI-BR005 LD-CFT-DI-BR008	Di BRO: The Evoperative Family type ambedded in the Evoperative Refueling Family (Dt) Is must be valid
DI-8	Family	standards.	Decision/nformationSubmission/Decision/InformationDetails	EvaporativeRefuelingFamilyName	FALSE	Information	A(12) 5	String	12 12	9](3)				Light Duty	Confirmatory Test	1	cturer	End XML	DIBRO	

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dement							Basic Data Do	ta Type Mit	<u>Max</u>	То	tal onal M	Vin Max	<u>×</u>				Originat	ollecti on Colle Point n Ty	aio	
number L Manufacturer Confi	ong Name irmatory Test Decision	Description	Parent's Name	XML Tag	Required	Multiplicity	Type De	scription_Leng	th Lergth	Pattern Dig	igits Digits Vi	alue Valu	Allowed Values	Light Duty	Process	Notes/Questions	<u>er</u>	Point n Ty	pe Applicable Business Rules	Validation Rulas
Federal	zyhaust Emission	Saked the applicable values		FederalEthausEmissionStandarddwn		1 par Conf Test Decision							Loss and Vision           Loss and				Manufa	Front		(2-8112). At least ow Faderal Enhance Enhance Standard Level (D-6) or California
Di-9 Sta	ndard Level	epresenting EPA's exhaust emission standard level.	DecisionInformationSubmission/DecisionInformationDetails	fier fier	FALSE	Information	A(4) Enu	meration					17.00 GVH) OT = 00er Lock-Up Values L2 = LEV-II LEV L2OP = LEV-II OPT 1	Light Duty	Confirmatory Test		cturer	Front End XN	L LD-CFT-DI-BR012	Exhibits de Prinsien d'air realisie d'alla d'alla d'anna d'anna Anna d'anna d
California Di-10 Sta	Exhaust Emission Indard Level	Select the applicable value spresenting California's exhaust emission standard level.	DecisionInformationSubmission/DecisionInformationDetails	CAExhaustEmissionStandardIdemilier	FALSE	1 per Conf Test Decision Information	A(4) Ens	meration					U2 = LEV-II ULEV 82 = LEV-II SULEV 2EV = CARB. ZEV OT = Other I	Light Duty	Confirmatory Test		Manufa cturer	Front End X0	LL LD-CFT-DI-BR012	DI-BR12: At least one Federal Exhaust Emission Standard Level (DI-0) or California Exhaust Emission Standard Level (DI-10) must be selected.
Feder DI-11 Emission	al Evaporative n Standard Level	Select the applicable value epresenting EPA's evaporative mission standard level.	DecisionInformationSubmission/DecisionInformationDetails	FederalEvaporativeEmissionStandards Identifier	FALSE	1 per Conf Test Decision Information	A(5) Enu	meration					Lock-Lib Valvan T1 = TIER T EVAP T2 = TIER 2 EVAP HD-20 = Haavy-Daty 2-Day Evap (1.75 grams) HD-30 = Haavy-Daty 3-Day Evap (1.4 grams) OT = Other 1 I	Light Duty	Confirmatory Test		Manufa cturer	Front End XN	L	
Californ DI-12 Emission	nia Evaporative n Standard Level	Select the applicable value epresenting California's evaporative amission standard level.	DecisionInformationSubmission/DecisionInformationDetails	CAEveporativeEmissionStanderdsIden tifier	FALSE	1 per Conf Test Decision Information	A(2) Env	meration					Look-Up Values C2 = LEV-II Evap 22 = LEV-II Zaro Evap OT = Other I	Light Duty	Confirmatory Test		Manufa cturer	Front End XX	L.	
Di-13	w meeting test decision	Did EPA request a confirmatory test or this vehicle during the preview meeting? Answer 'Y' if yes, otherwise 'N.	Decision/rformationSubmission/Decision/informationDetails	PreviewTestDecisionIndicator	TRUE	1 per Corll Test Decision Information	A(1) Enu	meration					Lock-Up Values : Y = Yes N = No	Light Duty	Confirmatory Test		Manufa cturer	Front End XX		
DI-14 New engin	ne/new technology	Does this test vehicle use a new angine or new technology? Answer Y'if yes, 'YT'if yes, but the new angine/technology has already been ested by EPA, otherwise 'N'.	DecisionInformationSubmission/DecisionInformationDetails	NewTechnologyIndicator	TRUE	1 per Conf Test Decision Information	A(2) Enu	meration					took-Ido Values : Y = Yes YT = Yes, but previously tested N = No I	Light Duty	Confirmatory Test		Manufa cturer	Front End XX	L.	
New engin	ne/new technology I description	Enter a description of the new angine or new technology.	DecisionInformationSubmission/DecisionInformationDetails	NewTechnologyDescriptionText	FALSE	1 per Conf Test Decision Information	A(100)	String 1	100					Light Duty	Confirmatory Test		Manufa cturer	Front End XX	L LD-CFT-DI-BR013	DI-BR13: If New Engine or Technology Indicator (DI-14) is equal to 'Y' (Yes) or 'YT' (Yes, but previously tested) then New Engine or Technology Description (DI-15) is required.
Replac DI-16	ement for failed vehicle	s this test vehicle a replacement for a vehicle which has previously failed an emission standard at EPA or the manufacturer's test facility? Answer Y' if yes or 'N' if no.		Failed/eticleReclacementIndicator	TRUE	1 per Conf Test Decision							Look-Up Values : Y = Yea N = No	Light Duty	Confirmatory Test		Manufa	Front End X0		
DI-16		T in yea of N in the. Does this tast meet the criteria for a observation of the second sec	Lecelon normal on Succession Decision normal on Decision norma	Panovenovepacementrocator	TRUE	1 per Cont Test Decision	A(1) Env	menation					N II NO II Look Ilo Values V = Yea	Light Duty	Commercy rest					
DI-25 Potenti DI-25.1	ial gas guzzler?		DecisionInformationSubmission/DecisionInformationDetails	PotentialGasGuzzlerIndicator	TRUE	Decision Information 1 per Conf Test	A(1) Enu	meration				_	N = No I	Light Duty	Confirmatory Test			Front End XN	L	
(NEW) Vehi DI-25.2		nanufacturer. s this test vehicle configuration an Emission Data Vehicle or a Fuel Economy Data Vehicle? Dest this set of Confirmatory Test Decision Information support a	DecisionInformationSubmission/DecisionInformationDetails	VehiclePurposeldentifier	TRUE	Information 1 per Conf Test Decision	A(4) Enu	meration					1 = Emission Data Vehicle (EDV) 31 = Fuel Economy Data Vehicle (FEDV) Lock-Jo Vahas: Y = Yes		Confirmatory Test		courier	Front End X0	L	
(NEW) Run	ning Change?	vacuum information support a unning change? This set of Confirmatory Test Decision Information supports a unning change, enter the running change number.	DecisionInformationSubmission/DecisionInformationDetails	RunningChangeIndicator	TRUE	Information	A(1) Enu	meration				_	N = No		Confirmatory Test		Manufa cturer	End XN		
DI-25.3 (NEW) Running	g Change Number	unning change, enter the running change number.	DecisionInformationSubmission/DecisionInformationDetails	RunningChangeNumberText	FALSE	1 per Conf Test Decision Information	A(25)	String		[1.					Confirmatory Test		Manufa cturer	Front End X0	L LD-CFT-DI-BR014	DI-RR14: If Running Change (DI-25.2) is equal to 'r' (Yss) then Running Change Number (DI-25.3) and Running Change Date (DI-25.4) are required.
DI-25.4 (NEW) Runnir	ng Change Date	I this set of Confirmatory Test Decision Information supports a unning change, enter the date of he running change letter. Ther the earliest date the test	DecisionInformationSubmission/DecisionInformationDetails	RunningChangeDate	FALSE	1 per Conf Test Decision Information	D(8)	Date		28(1)(0- 98(3)(0- 1)(1)(0- 98(1)(0- 3)(1)(0- 98(1)) 98(1)					Confirmatory Test		Manufa cturer	Front End XN	LL LD-CFT-DI-BR014	Di 88144. If Running Change (DI-55.2) is equal to 'Y (Yes) than Running Change Number (DI-55.3) and Running Change Date (DI-55.4) are required.
		Inter the carriest date the test which could be delivered to EPA or confirmatory testing. EPA's aboratory Operations Division will use this information when assigning test date if this test vehicle is selected for EPA confirmatory content.				1 per Coril Test Decision				[1- 2](1)(0- 9](3)(0- 1](1)(0- 9](1)(0- 3](1)(0- 3](1)(0- 0)(1)										
DI-17 Test Proc	cedure Information	warrig.	DecisionInformationSubmission/DecisionInformationDetails manufacturerConfirmatoryTestDescisionInfo	EarliestArriva/Date	TRUE	Information 1_0	D(8)	Date 8	8	9](1)			1	Light Duty	Confirmatory Test		Manufa cturer	Front End XN		
DI-17.5 T6	est Number	Their all applicable lost numbers for his loss and projection list and vigous combination. This is a unique transfer adapting of Vietily to works. Characters 1 is the Model results. Characters 1 is the Model related to loss use configuely run for, Characters 2 - 5 are the Manufacturer code followed by a Salah, dharacters 6 -12 are the applies with 3 is an EPA loss, any other number is a manufacture result. Sagins with 3 is an EPA loss, any other number is a manufacture re- sults.	Person Homaton Character Cherson Homaton Databilit en Proceduration musico Cherson Homaton Databilit	TeatNumberderdiser	TRUE	1 per test procedure/test fuel type combination per Conf Test Decision Information	A(12) Foo	d String 12	12						Confirmatory Test		Manufa cturar	Front End 30	LD-OFT-DI-BRV15 NEW: LD-OFT-DI-BRV15 NEW: LD-OFT-DI-BRV12	DABITS Tear Number (D-175) must exist in the system. NET IF March Your (D-175) in support of the system of the sy
		Ener al applicable sur procedures for own another of the Same		TauPousbuidkuitte	TRUE	1 por last procedings hall type continuation per Cont Teal Decision	N(2) 5	meration					Constrained and an	Light Duty	Confirmatory Test	This should be thy same for an T-16 in Taut Information	Verify	Pr exis Back End 34		

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Data elemen <u>I</u> <u>Long Name</u> Manufacturer Confirmatory Tota D	Description	Parent's Name_	XML Tag	Required Multiplicity_	Basic Data Data Type Min Max To Type Description Length Pattern Dir	Fract Min. Max and out Min. Max Allowed Values.	Light Duty	Process	Notes/Questions	Originat Collecti or Point	Collectio n Type	Appticable Business Rules
Do 19 Test Full type code	Enter the numeric hall type code beneficial to the type code in the standard to the type code in the procedure.		TesfutTyscCoa	T per test proceed as held but type contribution per Conf Test Decision TRUE Information	N2 Execution		Light Duty	Confirmatory Test		Back Verify End	Pre- existing Data XX8L	
	This is a system generated field based on the value entered for the on 'Test Fael Type Code'.	Na	e/a	t per Test Fuel Type Code per Test Procedure/Test Fuel Type Combination per Conl Test Decision FALSE	A(40) String 1 40		Light Duty	Confirmatory Test			Pre- Existing Data	
Mir. confirmatory tes required for mir. see Di-21 procedure ?	Does this set of confirmatory test decision information meet the relates in the CFR that defines when a maindiscurse ordinatory test or the required? Answer "for "yea" or "N to "rot". This addition must be answered for each test procedure conducted by the menufacture.	DescentionationDescenterationDeals/T entProcedurationDeals	Manufacture/Tes/Requiredindicator	1 per test procedure/test fuel type contination per Cort Test Oction TRUE Information	A(1) Enumeration 1 1	Lande Da Valana. V = Yea N = NO	Light Duty	Confirmatory Test	Need a view that Easts the Vehicle Choiceoning realizes the personnel of the manufacturer still hear's submitted their manufacturer still hear's submitted their cooldimatory test realists to Vehicly. Vehicy will been submitted for the same Vehicle Difficulty and the same Vehicle Difficulty and the same Vehicle	Manufa Front oburer End	XML	
_Di-22 Failed an emission tes	Did this test vehicle previously fail an emission test as defined in the CFR? Areaser 'Y ay sic or Y in on This quasison must be arrowered for each set procedure conducted by ? the manufacturer.	DecisionInformationSubmissionDecisionInformationDetails/T extProcedureInformationDetails	TestFailednScator	1 per test procedurehest fuel type combination par Conf Test Decision TRUE Information	A(1) Enumeration	Lank Do Values. V v Vas N v No	Light Duty	Confirmatory Test		Manufa Front cturer End	XML	
Emissions > 50% of Di-23 standard?	Are any of the emission results for this test within 90% of the applicable emission standards as defined in the CFR for manufacturer conducted tasting? Answer "Y if you or N if no. This quastion must be answered for each test procedure conducted by the manufacturer.	Desistentrilmatern@utmisternDesistenthomaternDatalar7 exiProced-exitemationDatala	Whin60PercentOfStandardIndicator	1 per test procedure/test faul type combination per Cont Test Decision traute	A(1) Enumeration	Lande Las Values : Y = You N = You	Light Duty	Confirmatory Test		Manufa Front churer End	XML	
Higher than expected f	Does this test have higher than expected hall economy as defined in the CFR for manufacture conducted testing? Answer 17 if yes or N if no. This question must be percented for each for lowersers total	Desistentrilomatori Butmistori Desistentrilomatori Dasala 7 esiProsode altertematori Datala	HigherThanExpectedFuelEconomyInd	1 per test procedure/test fuel type combination part Cort Test Decision TRUE	A(1) Enumeration	Londe Jas Valuan. Y = Vas N = No N = No Application	Light Duty	Confirmatory Test		Manufa Front cturer End	XML	
Fuel aconomy > Class 05-36 Isadeir? Manufacture / Submiss Isidomation	Does this test meet the criteria for fuel economy class leader as defined in the CFR for manufacturer conducted testing? Answer "If yea or N if no. This question must be arreward to crash fail executes.	Desistentritumatori@utmissionDesisonTeesisonTeesisoT estPreschereitorteestentDesiste maartateurerUtermissoTeesta Desistentinto	FuelEconomyGreate/ThanLeaderIndc abor	1 per test procedure/test fuel type combination per Cont Test Decision TRUE Information	A(1) Enumeration	Land Lin Valence V = Van N = No N = Not Applicatio	Light Duty	Confirmatory Test		Manufa Front cturer End	XML	
D1-27	Enter any comments to describe the											
DI-28 Manufacturer commer	Enter any comments to describe the changes being made if this is an updise to previously solarimed set of confernatory text decision information for which EPA has already made its conferencery testing decision. A system-generated field indicating	DecisionInformationSubmission/DecisionInformationDetails	SubmissionCommentText	t per Conf Test Decision FALSE Information	A(500) String 1 500		Light Duty	Confirmatory Test		Manufa Front cturer End	XML	BRNs: The value of OT (Dialys) is device for any of the bar and the field (OA     Fedure Enhance and the motion Theoder Level). On Caldinaria barbar barbard     Level, D-11 Federal Engenders: Emission Standard Level), o D-12 (Caldinaria     Engenders: Emission Standard Level), then the Manufacture Comments field (D-28) is     LD-OT-OL-88018     sequred.
Di-29 Date submitted	b decision. A system-generated field indicating the date that this set of continuatory set at decision information is submitted to EFA. The runse of the manufacture contential EFA has questions requiring the set of continuatory againting the set of continuatory main address are of continuatory and address and phone number with an address and phone number of the manufacture in the phone manufacture in the phone.			1 per Cont Test Decision Information	D(8) Date		Light Duty	Confirmatory Test		Verify Front End	Pre-	
Marufacturer Confirma Di-30 Mitr Confirmatory Test Contact Name Di-31 Mitr Confirmatory Test Cc email address	E-mail address of the manufacturer representative that should be contacted If EPA has quasifors regarding this set of confirmacy test decision information. The cortact's email address will be toked up from the cortact information previously	NA	ContactRepresentativeName	TRUE Information	A(50) String 50		Light Duty	Confirmatory Test		VerilyMt anulact Back uner End VerilyMt anulact Back	Bro	

elemen					Basil	c Data Type	Min Max Total	Fracti onal Min Max					Originat	Collecti	vitoria	
Long Name Manufacturer Confirmatory Test Decis	Description	Parent's Name	XML Tag	Required	Multiplicity Type	Description	Length Length Pattern Digits	Digits Value Valu	Allowed Values	Industry Light Duty	Process	Notes/Questions	Originat or	Point 1	Type Applicable Business Rules	Validation Rules
	Phone number of the manufacturer representative that should be															
	contacted if EPA has questions regarding this set of confirmatory test															
	decision information. The contact's phone number will be looked up															
N	from the contact information previously entered by the manufacturer in the Manufacturer				1 per Conf Test Decision								Verity/M	Durit I	Pre- xisting	
DI-32 Manufacturer Confirmatory Test Contact Phone Number CISD Test Decision	Information module of Verify.	NA	ContactPhoneNumberText	TRUE	Information A(25	i) String	25			Light Duty	Confirmatory Test		anufact urer	End E	Data	
Information	Internal ERA field adu. Adiustable				1 per Carl Test					Light Duty	Confirmatory Test					
DI-33 Random test selection rate	Internal EPA field only. Adjustable % rate used for random test selection algorithm. Datermined by EPA.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails	RandomTestSelectionRate	TRUE	Decision	) Interer		0 22		Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
Random test selection	Internal EPA field only. Indicates if confirmatory test was a random	DecisionInformationSubmission/DecisionInformationDetails/E		TRUE	1 per Conf Test Decision	) integer			Look-Up Values: Y = Yes	-9				Back		
DI-34 indicator	selection. Y/N; default == null. Internal EPA field only. Indicates if	PAGeneratedDecisionInformationDatails	RandomTestSelectionIndicator	TRUE	Information A(1)	Enumeration			N = No Look-Up Values:	Light Duty	Confirmatory Test		Verity	End A	isigned	
EPA Testing decision DI-35 indicator	confirmatory test will be conducted at EPA. Y/N; default == null.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails	EPATestDecisionIndicator	TRUE	Decision Information A(1)	) Enumeration	1 1		Y = Yes N = No	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Internal EPA field only. Multiple predefined codes used to lookup				1 per Conf Test				"01" = "Random"							
Reason for confirmatory EPA DI-36 testing code	'reason for conf. EPA test' descriptions.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails	EPAConfirmatoryTestReasonCode	TRUE	Decision Information N(2)	) Enumeration	2 2		"06" = "New Engine/Technology" "99" = "Other"	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Internal EPA field only.															
	Possible values: '01' = random audit				1 per Conf Test				"01" = "Random"						Pre-	
DI-37 Reason for confirmatory EPA testing code description	106 = new engine.technology 1997 = other reason		CISDTestDecisionInformation	TRUE	Decision Information A(40	) Enumeration	2 2		"01" = "Random" "06" = "New Engine/Technology" '99" = "Other"	Light Duty	Confirmatory Test		Verity	Back E End	xisting Data	
									2 - CVE 75 AND LATER (IND CAN. LOAD)							
									tis - SPITIANZE TEAT 21 - FED FUEL 2 DAY EXH (BUTANE LOAD) 23 - FED FUEL 2 DAY EVAP (BUTANE)							
									26 = FED FUEL REFUEL (OKVR) (BUTANE) 26 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EVAP (BUTANE LOAD)							
									11 = FED FLEL 3 DKY 6XH (BUTANE LOAD) 32 - FED FLEL RUNNING LOSS							
									si = o PED FUELS DAY EVAPPENTANE LOAD) III = O A FUELS I DAY EVAPPENTANE LOAD) III - CA FUEL RUNNING LOSS							
									28 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 61 = FED FUEL 2 DAY EXAP(BLAT TO LOAD) 61 = FED FUEL 20AY EVAP(BLAT TO LOAD)							
									66 = FED REFUEL (DRVR) (HEAT TO LOAD) 66 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 69 = CA FUEL 2 DAY EXH (HEAT TO LOAD)			INNEED TO USE FULL LIST OF TEST PROCEDURES-NOT THE CURRENT ABBREVIATED LISTIN				
									HE I FALL REFUEL (SHARING (MARK) FOLLOW) HE = CA FAUE, SDAY EXHIPSIAN TO LOAD) HF = CA FAUE, SDAY EXHIPSIAN TO LOAD) III = CA FAUE, SD EXCIPTION TEST III = FED FAUE, SD EXCIPTION TEST			02 - CVE 75 and later (w/o can lead) 02-HIMPE				
									er - Ger Theo vision Fundament and Test			21-Federal fuel 2 day exhaust (when lead) 22-2 day Europ				
									to L EXCTEDITION EXCENTION X EARLY TOTAL TO COT TO DEPENDENCE TO TO N= COT PRECED 2 SPD DLE (EPA ONLY) H1 - Darge Darkenig LDDS t1 - Darge Darkenig LDDS			26-California fuol 2 day autoaust (wiscon load)				
	Internal EPA field only. EPA defined codes which correspond to a set of unique test procedures used								ID = Charge Depleting USDN 86 = Charge Depleting Highway 88 = Charge Depleting 2003 96 = Charge Depleting 21 Degree F FTP			82 - ELECTRIC VEHICLE URBAN RANGE -				
Test procedure codes	for confirmatory testing at EPA.				1n per Conf				IN = Charge Depleting 25 Degree F FTP RT = A/C Ide Test> Manual A/C IN = A/C Ide Test> Automatic A/C			82 - ELECTRIC VEHICLE HIGHMAY RANGE -				
DI-38 Confirmatory Testing	Multiple predefined codes used to lookup test procedure descriptions.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/EPATesrDetails	EPATestProcedureCode	TRUE	Test Decision Information N(2)	) Enumeration			eo = Lilos es = Silos	Light Duty	Confirmatory Test	<del>90-1/500-</del>	EPA	Back End	Data Entry	
									6 - EPA UNLEADED GASOLINE							
									6 = EPA UNLEADED GASOLINE 9 = CERT DIESEL 300 PPM SULFUR 16 = CERT DIESEL 7-15 PPM SULFUR 25 = CARE PHASE II GASOLINE							
									31 = METHANOL (CERT M13) 32 = METHANOL (CERT M13) 33 = METHANOL (CERT M15)							
									22 - CVBB PARKET I GASCULIE 14 - METHANOL (CERT MIG) 25 - METHANOL (CERT MIG) 14 - METHANOL (CERT MIG) 14 - METHANOL (CERT MIG) 15 - ETO (70% ETHANOL SIN EPA UNLEADED GASCULIE) 16 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE)							
									20 = E10 (10% ETHANDE 50% EPA UNLEADED GASOLINE) 28 = E85 (85% ETHANOL 15% EPA UNLEADED GASOLINE) 41 = CNG							
									42 = LPG 43 = E10 (10% ETHANDL 50% CAL PHASE I GASOLINE) 44 = E85 (85% ETHANDL 15% CAL PHASE I GASOLINE) 45 = E70 (70% ETHANDL 20% CAL PHASE I GASOLINE)							
	Internal EPA field only. The test fuel that will be used for each of the				1n per Conf				45 = E70 (70% ETHANDL 30% CAL PHASE II GASOLINE) 50 = HYDROGEN							
Test Fuel Type Code For EPA DI-38.5 Confirmatory Testing	test procedures selected by EPA for EPA confirmatory testing.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/EPATestDetails	EPATestFuelTypeCode	TRUE	Test Decision Information N(2)	) Enumeration			60 = NFDROGEN 60 = NFDROGEN 61 = TER2 CERT GASOLINE 62 = ELECTRUCTY 71 = E100 (100% ETHANOL)		Confirmatory Test		EPA	Back End	Data Entry	
	Internal ERA Sold only. CCD analyst	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Test Decision A(100	10								Back End	Data Entry	
DI-39 Special testing instructions	defined.	PAGeneratedDecisionInformationDetails	SpecialTestInstructionText	FALSE	Information )	String	1 1000			Light Duty	Confirmatory Test		EPA	End	Pre-	
	Internal EPA field only. Number of			1	1 per Conf Test					1		Participants of Million Prof.		E	xisting lata or	
Di-40 Number of preps	LA-4 prep cycles for a test vehicle. Entered by cert analyst.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails	PrepCycleaNumber	TRUE	Decision Information N(2)	) Integer	1 2			Light Duty	Confirmatory Test	Default value of "1" but EPA cert rep can change to a different value.	EPA	Back End	Data Entry	
DL41 Cert analyst name	Internal EPA field only. CCD analyst			TRUE	1 per Conf Test Decision	) String				Light Duty	Confirmatory Test		Marily	Back E	Pre- xisting Data	
DI-41 Cert analyst name	who made test decision. Internal EPA field only. CCD analyst			TRUE	1 per Conf Test Decision	7 Danish	. 30			oger outy	Commercity rest		carry		Pre-	
DI-42 Cert analyst phone #	Internal EPA held only. CCD analyst phone number. Internal EPA field only. Date and			TRUE	Information A(15	i) String	15 15	$\vdash$		Light Duty	Confirmatory Test		Verity	Back E End	xisting Data Pre-	
Cert conf. test decision date DI-43 and time	time of CCD analyst's decision. Format: yyyy/mm/dd hh:nn (24hr)			TRUE	Decision Information D(12	) Date	12 12		YYYYMMDD HH:NN (24 M)	Light Duty	Confirmatory Test		Verify	Back E End	xisting Data	
	Internal EPA field only. CCD analyst	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Test Decision A(100	10							,		Data Entry	
DI-44 Cert comments	defined. Internal EPA field only.	PAGeneratedDecisionInformationDetails	CertificationCommentText	FALSE	Information )	String	1 1000	+++		Light Duty	Confirmatory Test		EPA	Back End	Entry	
	Internal EPA field only. Possible Values:			1						1						
	Y = A copy of the confirmatory test			1					Possible Values : Y = A copy of the confirmatory test report is not sent	1						
	report is not sent electronically to the manufacturer.				1 per Conf Test				electronically to the manufacturer.							
Manufacturer report DI-45 suppression indicator	N = Report is automatically sent following the EPA confirmatory test.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails	ManufacturerReportSuppressionIndica tor	FALSE	Decision Information A(1)	Enumeration	1 1		N = Report is automatically sent following the EPA confirmatory test.	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
LOD Test Scheduling Information										Light Duty	Confirmatory Test					
	Internal EPA field only. Test date assigned by LOD.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/LODTestScheduleD			1 per Conf Test Decision									Back End	Data Entry	
DI-46 LOD assigned test date	Internal EPA field only 1 00	etails DecisionInformationSubmission/DecisionInformationDetails/E	AssignedTestDate	TRUE	Information D(8)	Date	8 8	$\vdash$	YYYYMMDD	Light Duty	Confirmatory Test				Entry	
DI-47 LOD test date assigner	representative who assigned test date.	PAGeneratedDecisionInformationDetails/LODTestScheduleD etails	TestDateAssignerName	TRUE	1 per Conf Test Decision Information A(50	) String	1 50			Light Duty	Confirmatory Test		Verify	Back End A	signed	
	Internal EPA field only. LOD representative who assigned test date if different than logged in user.	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/LODTestScheduleD			1 per Conf Test Decision									Back End	Data Entry	
		etails DecisionInformationSubmission/DecisionInformationDetails/E	TestDateAlternateAssignerName	TRUE	Information A(50 1 per Conf Test	) String	1 50	+++		Light Duty	Confirmatory Test				Entry	
LOD date of test date DI-49 assignment	Internal EPA field only. Date of test assignment.	PAGeneratedDecisionInformationDetails/LODTestScheduleD etails	TestDateAssignmentDate	TRUE	Decision Information D(8)	Date	8 8		YYYYMMDD	Light Duty	Confirmatory Test		Verity	Back End A	isigned	
	Internal EPA field only. LOD	PAGeneratedDecisionInformationDetails/LODTestScheduleD	LODCommentText		1 per Conf Test Decision Information A/200	)) String	1 200			Light Duty	0		LOD	Back End	Data Entry	
DI-50 LOD comments Retest Information	representative defined.	etails	LODCommentText	FALSE	information A(200	u) String	1 200				Confirmatory Test Confirmatory Test		LUD	End	Enny	
	Internal EPA field only. Y/N; default == null. Entered by						$        \top$						T	Γ		
	Cert analyst. Y = Need to conduct a															
DI-51 Retest needed?	Decision is made by CISD, LOD, and manufacturer, or a combination of the shore	DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/RetestInformationDe	Denver 1	1 -	1 per Conf Test Decision				Y = Need to conduct a retest.	Light Duty	Confirmatory Test			Back End	Data Entry	
DI-51 Retest needed?	the three.	taita	RetestIndicator	TRUE	-recentación A(1)	crumeration			N = No need to retest	Light Duty	committory lest	l	EP'A	end	uny	

Data										1 1			1						
elemen							Basic				Fracti						lecti		
ų.						Multiplicity	Data	Data Type A	fin Max	Total	onal Min Max Digits Value Value				04	inat o	on Coll oint n 1	voe Applicable Business Rules	
number	Long Name rer Confirmatory Test Decis	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description Les	Ign Lergh		Digits Value Value	Allowed Values	Light Duty	Process	Notes/Questions	<u>×</u> P	ont n	ype Approable Business Rules	Validation Rules
Manufactu	rer Confirmatory Test Decis	Internal EPA field only. Comment	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Cord Te							Light Duty			_	_		
		entered by LOD or CISD	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision	"										ack D	ata	
DI-52	Retest decision comment		PAGeneraladDecisioniniormationDetails/KelastiniormationDe tails	RetestDecisionCommentText	FALSE	Information	A(500)	String	1 500				Light Duty	Confirmatory Test				ana May	
Di-Gz		representative.	DecisionInformationSubmission/DecisionInformationDetails/E	The second	PALOE	1 per Conf Te	A(330)	Juney	1 300				Light Duty	community real			10 0	ay .	
		Internal EPA field only. Cert analyst	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision											ack		
DI-53	Cert Analyst (retest)	deciding retest status.	tails	RetestCertificationAnalystName	TRUE	Information	A(50)	String	1 50				Light Duty	Confirmatory Test				gned	
			DecisionInformationSubmission/DecisionInformationDetails/E		TRUE	1 per Conf Te							-9		-	, -		y	
		Internal EPA field only. Date of Cert	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision										в	ack		
DI-54	Cert retest decision date		teila	RetestCertificationDecisionDate	TRUE	Information	D(8)	Date				YYYYMMDD	Light Duty	Confirmatory Test				oned	
			DecisionInformationSubmission/DecisionInformationDetails/E		TRUE	1 per Conf Te	-(0)						-9		-	, -		y	
		Internal EPA field only. Date of	PAGeneratedDecisionInformationDetails/RetestInformationDe		1	Decision			1				1	1		в	ack D	ata	
DI-55	LOD retest date	retest assigned by LOD.	tails	RetestDate	TRUE	Information	D(8)	Date	8 8	1		YYYYMMDD	Light Duty	Confirmatory Test				10V	
		Internal EPA field only. LOD	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Te	()		-						1			· .	1
		representative who assigned retest	PAGeneratedDecisionInformationDetails/RetestInformationDe		1	Decision			1				1	1		в	ack	1	
DI-56	LOD retest date assigner		tails	RetestDateAssignerName	TRUE	Information	A(50)	String	1 50	1			Light Duty	Confirmatory Test	v			gned	
			DecisionInformationSubmission/DecisionInformationDetails/E		1	1 per Corll Te	4			1 1			1			-			
		Internal EPA field only. Date of	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision										в	ack		
DI-57	LOD retest date assigned	retest date assignment.	tails	RetestDateAssignmentDate	TRUE	Information	D(8)	Date	8 8			YYYYMMDD	Light Duty	Confirmatory Test	v	rify E	ind Ass	gned	
		Internal EPA field only. Multiple																	
		predefined codes to lookup retest										1=void;							
		descriptions. 1=void; 2=emission	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Te						2+emission failure;							
		failure; 3=high coast down; 4=FE	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision						3=high coast down;						ata	
DI-58	Reason for retest code	different by > 3%	tails	RetestReasonIdentifier	TRUE	Information	A(1)	Enumeration	1 1			4=FE different by > 3%	Light Duty	Confirmatory Test		PA E	ind E	stry	
		Internal EPA field only. EPA sets to	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Te	at 1												
		Y when vehicle is finished with	PAGeneratedDecisionInformationDetails/RetestInformationDe			Decision						Y = Testing completed.						ata	
	Testing complete indicator LOD QC Check Information		tails	TestCompletionIndicator	TRUE	Information	A(1)	Enumeration	1 1			N = Testing not completed	Light Duty	Confirmatory Test Confirmatory Test		PA E	ind E	utry	
-	LOD GC Check information												Light Duty	Commissory rest					
		Internal EPA field only. 'Y' or 'N'																	
		(default). Y = LOD quality control																	
		(QC) check of test has been performed. N = No check has been																	
		performed. N = No check has been performed. LOD QC indicator is																	
		used for a "basic" check at the time																	
		the LOD test is finished, and a	DecisionInformationSubmission/DecisionInformationDetails/E			1 per Corl Te						Y = LOD quality control (QC) check of test has been							
		second time during a final LOD QC	PAGeneratedDecisionInformationDetails/LODQualityControlC		1	Decision			1			performed.	1	1		в	ack D	ata	
DI-60	QC check indicator	check of the confirmatory test results.	heckDetails	BasicCheckIndicator	FALSE	Information	A(1)	Enumeration	1 1	1		N = No check has been performed.	Light Duty	Confirmatory Test				10V	
			DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Te	4 107		-						1			· .	1
		Internal EPA field only. LOD	PAGeneratedDecisionInformationDetails/LODQualityControlC		1	Decision				1			1	1		в	ack	1	
DI-61	QC check assigner	representative who did the QC check.	heckDetails	CheckAssignerName	FALSE	Information	A(50)	String	1 50				Light Duty	Confirmatory Test	v	rity E	ind Ass	gned	
			DecisionInformationSubmission/DecisionInformationDetails/E			1 per Corlf Te	4												
		Internal EPA field only. LOD	PAGeneratedDecisionInformationDetails/LODQualityControlC		1	Decision				1			1	1			ack	1	
DI-62	QC check comments	representative defined.	heckDetails	CheckCommentText	FALSE	Information	A(200)	String	1 200				Light Duty	Confirmatory Test	V	rify E	ind Ass	gned	
			DecisionInformationSubmission/DecisionInformationDetails/E			1 per Conf Te	4						1						
		Internal EPA field only. Date the	PAGeneratedDecisionInformationDetails/LODQualityControlC		1	Decision				1			1	1			ack	1	
DI-63	QC check entry date	final LOD QC check was completed.	heckDetails	CheckEntryDate	TRUE	Information	D(8)	Date	8 8			YYYYMMDD	Light Duty	Confirmatory Test	v	rify E	ind Ass	gned	
																_			

Pink = TBD	Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																		
EPA Data element					Descient		Basic Data	Data Type	<u>Min N</u>	lax Patt	Total C	racti onal Mir	n <u>Max</u>	c. e Allowed Values					Collectio	Collection	Applicable Business	
number Shift So	Long Name hedule Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Type L	Description Le	ngth Lei	ngth ern	Digits D	igits Valu	ue Value	Look-up Values	Indust	ry Process	Notes/Questions	Originator	n Point	Туре	Rules	Validation Rules
		Select the desired process												N = New dataset								
SS-0.5	Process Code	code for the current submission.	ShiftScheduleSubmission/Shift ScheduleInformationDetails	InformationProcessCode	TRUE		A(1) Er	numeration	1	1				C = Correction of Verify dataset	existing Light-D	Confirmator uty Test	У	Manufactur er	Front End	XML	LD-CFT-SS-BR009	If Process Code = "R" or "D" or "C", a record must exist in Verify for the primary key of this module.
																	Primary key for shift					SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4).
		Identifier for the shift								[A-							schedules is: shift schedule ID (SS-1) - shift schedule	•			LD.CET.SS.BR001a	SS-BR6: If Process Code (SS-0.5) is equal to 'N' (New), then a Shift Schedule record cannot already exist in the system with the same
SS-1	Shift schedule ID	schedule to be performed for a test	ShiftScheduleSubmission/Shift ScheduleInformationDetails/	ShiftScheduleIdentifier	TRUE		A(4) Str	ring	1	9]{1, 4 4}					Light D	Confirmator Ity Test	y database code (SS- 2) + mfr code (SS-4)	Manufactur er	Front End	XML	LD-CFT-SS-BR001b LD-CFT-SS-BR006	Shift Schedule ID (SS-1), Shift Schedule Database Code (SS-2), an Manufacturer Code (SS-4).
															Ĭ		Primary key for shift schedules is: shift schedule ID (SS-1) -					SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4).
		Internal EPA code for the															shift schedule database code (SS-					SS-BR6: If Process Code (SS-0.5) is equal to 'N' (New), then a Shift
	Shift schedule database	source of the shift schedule Verify will automatically load	a. d											'A' = Manufacturer		Confirmator	2) + mfr code (SS-4)		Back		LD-CFT-SS-BR001a LD-CFT-SS-BR001b	Schedule record cannot already exist in the system with the same
SS-2	code	this element with "A".		n/a	TRUE		A(1) Er	numeration						'A' = Manufacture.	ers (for cert/fe) Light D	uty Test		Verify	End	Assigned	LD-CFT-SS-BR006	Manufacturer Code (SS-4). SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C
																						(Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4).
																						SS-BR2: Manufacturer Code (SS-4) must exist in the system.
																						SS-BR4: If the Process Code (SS-0.5) is equal to 'R' (Report) then the Manufacturer Code of the Submission Author Details must mate the Manufacturer Code (SS-4) of the dataset for which the report was requested.
																	Primary key for shift				D-CET-SS-BR001a	SS-BR5: If the Process Code (SS-0.5) is equal to 'N' (New) or 'C' (Correction) then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SS-4) of the submitted dataset
																	schedules is: shift schedule ID (SS-1) -				LD-CFT-SS-BR001b LD-CFT-SS-BR002	
SS-4	Manufacturer code	Manufacturer code will be assigned during login.	ShiftScheduleSubmission/Shift ScheduleInformationDetails/	EPAManufacturerCode	TRUE		A(3) St	ring	3	[A- Z0- 3 9]{3}					Light D	Confirmator	shift schedule y database code (SS- 2) + mfr code (SS-4)			XML	LD-CFT-SS-BR004 LD-CFT-SS-BR005 LD-CFT-SS-BR006	Schedule record cannot already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS-2), an Manufacturer Code (SS-4).
				El 7 mandiada el 1000de																		
	Shift schedule description	The text description of the shift schedule.	ShiftScheduleSubmission/Shift		FALSE		A(30) St	ring	1 3	10					Light D	Confirmator	у	Manufactur er	Front End	XML		
SS-5	description	The text description of the shift schedule.	ShiftScheduleSubmission/Shift ScheduleInformationDetails/	ShiftScheduleDecriptionT ext n/a				ring	1 3	10		0	5	05	Light D Light D	Confirmator	y y		Front End Back End	XML Data Entry		
SS-5 SS-7	description LNS error severity code Non-cruise declutch	shift schedule. NOTE: (For EPA use only) Speed for a declutch	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ShiftScheduleSubmission/Shift ScheduleInformationDetails/No	ShiftScheduleDecriptionT ext n/a	FALSE		N(1) Int	teger	1 3	10		0		05	Light D	Confirmator uty Test Confirmator	у у у	er EPA Manufactur	End Back End Front	Data Entry		
SS-5 SS-7	description	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a n DeclutchSpeedValue	FALSE			teger	1 3	10	4	0		05	Light D	Confirmator	у у у	er EPA Manufactur er	End Back End Front End	Data		
SS-5 SS-7 SS-8	description LNS error severity code Non-cruise declutch	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/ ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleInformationDetails/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a p DeclutchSpeedValue n Gear1To2SpeedValue	FALSE		N(1) Int	teger	1 3	10	4	0 1 0 1 0		05	Light D	Confirmator uty Test Confirmator uty Test Confirmator	у у у	er EPA Manufactur	End Back End Front	Data Entry		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No ScheduleInformationPetails/No ScheduleInformationPetails/No	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue dGear1To2SpeedValue	FALSE FALSE TRUE TRUE		N(1) Int N(4,1) De N(4,1) De	teger ecimal	1 3	10	4	0 1 0 1 0	200	000.0 - 200.0	Light D	Confirmator Ity Test Confirmator Ity Test Confirmator Ity Test Confirmator	y y y y y	er EPA Manufactur er	End Back End Front End	Data Entry		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point speed 3-4 acceleration shift point	ShiftScheduleSubmission/Shift SchedulenformationDetails/ BhiftScheduleSubmission/Shift SchedulenformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GeartTo2SpeedValue	FALSE FALSE TRUE TRUE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De	ecimal	1 3	10 10	4	1 0	200 200 200	000.0 - 200.0	Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator	y y y y y	er EPA Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End	XML XML XML		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1:2 acceleration shift point seed 2:3 acceleration shift point speed 3:4 acceleration shift point speed	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue	FALSE FALSE TRUE TRUE		N(1) Int N(4,1) De N(4,1) De	ecimal	1 3		4	1 0	200	000.0 - 200.0	Light D Light D Light D Light D	Confirmator Ity Test Confirmator Ity Test Confirmator Ity Test Confirmator	y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End	Data Entry XML XML		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> <u>SS-11</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 4-5 acceleration shift point	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ShiftScheduleSubmission/Shift ScheduleInformationDetails/No ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ScheduleInformationDetails/No CruiseShiftDetails ScheduleInformationDetails/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue	FALSE FALSE TRUE TRUE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De	ecimal ecimal ecimal		10 10	4 4 4 4	1 0	200 200 200 200	000.0 - 200.0	Light D Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator	y y y y y y	er EPA Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End	XML XML XML		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> <u>SS-11</u> <u>SS-12</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 4-5 acceleration shift point speed 5-6 acceleration shift point speed	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationPatails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GearTo2SpeedValue Gear3To4SpeedValue Gear3To4SpeedValue	FALSE FALSE TRUE TRUE FALSE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De N(4,1) De	ecimal ecimal ecimal ecimal ecimal ecimal ecimal	1 3		4 4 4 4 4 4	1 0	200 200 200 200	000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test	y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End Front End	Data Entry XML XML XML XML		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> <u>SS-11</u> <u>SS-12</u> <u>SS-13</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS Non-cruise 4-5 gear SS	shift schedule. NOTE: (For EPA use only). Spead for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 4-5 acceleration shift point speed 6-6 acceleration shift point speed 6-7 acceleration shift point	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear3To4SpeedValue Gear3To4SpeedValue Gear4To5SpeedValue	FALSE FALSE TRUE FALSE FALSE FALSE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De N(4,1) De N(4,1) De	ecimal ecimal ecimal ecimal ecimal ecimal ecimal	1 3		4 4 4 4 4 4	1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200	000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test	y y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End Front End Front End Front End	Data       Entry       XML       XML       XML       XML       XML       XML		
<u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> <u>SS-11</u> <u>SS-12</u> <u>SS-13</u>	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS	shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 2-4 acceleration shift point speed 5-6 acceleration shift point speed 6-7 acceleration shift point speed	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhttScheduleSubmission/Shift ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear3To4SpeedValue Gear4To5SpeedValue Gear5To6SpeedValue Gear6To7SpeedValue	FALSE FALSE TRUE TRUE FALSE FALSE		N(1) Int N(4.1) De N(4.1) De N(4.1) De N(4.1) De	ecimal ecimal ecimal ecimal ecimal ecimal ecimal	1 3		4 4 4 4 4 4 4 4	1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200	000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test	y y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End Front End Front End Front End	XML XML XML XML XML XML XML		
SS-5           SS-7           SS-8           SS-9           SS-10           SS-11           SS-12           SS-13           SS-14	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS Non-cruise 4-5 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 5-6 acceleration shift point speed 6-7 acceleration shift point speed 7-8 acceleration shift point speed	ShiftScheduleSubmission/Shift Scheduleinformation/Details/ Scheduleinformation/Details/ Scheduleinformation/Details/ CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails Scheduleinformation/Details/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear3To4SpeedValue Gear4To5SpeedValue Gear5To6SpeedValue Gear6To7SpeedValue	FALSE FALSE TRUE FALSE FALSE FALSE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De N(4,1) De N(4,1) De	teger			4 4 4 4 4 4 4 4 4	1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200	000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D Light D Light D	Confirmator try Test Confirmator try Test	y y y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End Front End Front End Front End	Data       Entry       XML       XML       XML       XML       XML       XML		
SS-5           SS-7           SS-8           SS-9           SS-10           SS-11           SS-12           SS-13           SS-14           SS-15	description LNS error sevenity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 4-5 gear SS Non-cruise 4-5 gear SS Non-cruise 6-7 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a dedutch operation 1-2 acceleration shift point searcd 2-3 acceleration shift point searcd 4-5 acceleration shift point speed 4-5 acceleration shift point speed 6-7 acceleration shift point speed 7-8 acceleration shift point speed C-7 acceleration shift point speed C-8 acceleration shift point speed C-8 acceleration shift point speed	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/ ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue	FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE		N(1) Int N(4,1) De N(4,1) De N(4,1) De N(4,1) De N(4,1) De N(4,1) De	scimal sc				1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200	000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D Light D Light D Light D	Confirmator try Test Confirmator try Test	y y y y y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front End Front End Front End Front End Front End Front End	Data Entry XML XML XML XML XML XML XML		
SS-5           SS-7           SS-8           SS-9           SS-10           SS-11           SS-12           SS-13           SS-14           SS-15           SS-16	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-4 gear SS Non-cruise 2-5 gear SS Non-cruise 2-6 gear SS Non-cruise 2-8 gear SS Non-cruise 2-8 gear SS	shift schedule. NOTE: (For EPA use only). Spend for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 5-6 acceleration shift point speed 5-7 acceleration shift point speed Crucies speed for a declutch operation	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear3To4SpeedValue Gear3To4SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue	FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE		N(1) Int N(4.1) De N(4.1) De N(4.1) De N(4.1) De N(4.1) De N(4.1) De N(4.1) De N(4.1) De	scimal sc				1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200 200 200	000.0 - 200.0 000.0 - 200.0	Light D Light D Light D Light D Light D Light D Light D Light D Light D	Confirmator ty Test Confirmator ty Test	y y y y y y y y y y y	er EPA Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er Manufactur er	End Back End Front Front Fro	Data Entry XML XML XML XML XML XML XML XML XML XML		
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SS-5           SS-7           SS-9           SS-10           SS-11           SS-12           SS-13           SS-14           SS-15           SS-16           SS-17           SS-16           SS-17           SS-18	description LNS error severity code Non-cruise declutch peed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-4 gear SS Non-cruise 3-6 gear SS Non-cruise 3-6 gear SS Non-cruise 3-7 gear SS Cruise declutch speed Cruise 1-2 gear SS Cruise 1-2 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a declutch operation. 1-2 acceleration shift point speed 2-3 acceleration shift point speed 4-5 acceleration shift point speed 4-5 acceleration shift point speed 6-7 acceleration shift point speed 7-8 acceleration shift point speed Cruise speed for a declutch operation 1-2 cruise shift point speed 2-3 cruise shift point speed	ShiftScheduleSubmission/Shift ScheduleInformation/Details/ ScheduleInformation/Stift Sched	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue Gear7To3SpeedValue Gear7To3SpeedValue Gear7To3SpeedValue Gear7To3SpeedValue Gear7To3SpeedValue	FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE		N(1)         Int           N(1)         Int           N(4.1)         De	scimal sc				1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200 200 200	000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0	Light D Light D	Confirmator yy Test Confirmator yy Test Confirmator dy Test	y y y y y y y y y y y y y y y	er EPA Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er Manuflactur er	End Back End Front Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front End Front Front End Front Front End Front Front Front End Front Front Front End Front	Data Entry XML XML XML XML XML XML XML XML XML XML		
SS-5           SS-7           SS-8           SS-9           SS-10           SS-11           SS-12           SS-13           SS-14           SS-15           SS-16           SS-17           SS-18           SS-19	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-4 gear SS Non-cruise 2-5 gear SS Non-cruise 5-6 gear SS Non-cruise 5-7 gear SS Cruise declutch speed Cruise 1-2 gear SS Cruise 2-3 gear SS Cruise 2-3 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a dedutch operation 1-2 acceleration shift point seeed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 4-5 acceleration shift point speed 4-5 acceleration shift point speed 7-8 acceleration shift point speed 7-8 acceleration shift point speed 2-3 acceleration shift point speed 2-3 acceleration shift point speed 2-3 cruise shift point speed 3-4 cruise shift point speed	ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/ ChiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue Gear5To6SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue	FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE		N(1)         Int           N(1)         Int           N(4.1)         De	scimal				1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200 200 200	000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0           000.0 - 200.0	Light D Light D	Confirmator yy Test Confirmator yy Test Confirmator y Test Confirmator Confirma	y y y y y y y y y y y y y y y y	er EPA Manufactur er er Manufactur er er Manufactur er er er er er er er er er e	End Back End Front Front Fro	Data Entry XML XML XML XML XML XML XML XML XML XML		
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SS-5           SS-7           SS-8           SS-9           SS-10           SS-11           SS-12           SS-14           SS-15           SS-16           SS-17           SS-16           SS-17           SS-18           SS-19           SS-20           SS-21	description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-3 gear SS Non-cruise 2-5 gear SS Non-cruise 2-5 gear SS Non-cruise 2-6 gear SS Cruise declutch speed Cruise 1-2 gear SS Cruise 2-3 gear SS Cruise 2-3 gear SS Cruise 3-4 gear SS Cruise 3-4 gear SS	shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point seeed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 5-6 acceleration shift point speed 6-7 acceleration shift point speed 6-7 acceleration shift point speed 7-8 acceleration shift point speed 1-2 cruise shift point speed 3-4 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed	ShiftScheduleSubmission/Shift ScheduleInformation/Details/ ScheduleInformation/Details/ ScheduleInformation/Details/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No Sch	ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GearTo2SpeedValue GearTo3SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo5SpeedValue GearTo5SpeedValue GearTo5SpeedValue GearTo7SpeedValue	FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE		N(1)         Ind           N(1)         Ind           N(4,1)         De           N(4,1)         De	scimal sc				1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	200 200 200 200 200 200 200 200 200 200	000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0           000.0         - 200.0	Light D Light D	Confirmator yy Test Confirmator yy Test Confirmator y Test	y y y y y y y y y y y y y y y y y y y	er EPA Manufactur er Manufactur manuf	End Back End Front Front Front End Front	Data Entry XML XML XML XML XML XML XML XML XML XML		

EPA Data element number Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Data Ty Type Descript	<u>pe Min</u> ion Lengt	Max th Length	Patt Tota ern Digit	Fracti al onal s Digits	<u>Min</u> Value	<u>Max</u> Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collectio n Point	Collection Type	Applicable Business Rules	Validation Rules
Shift Schedule Information																					
													002 - FTP (Cert); 003' - HWFE (Cert); 004' - USO6 (Cert); 005' - SC03 (Cert); 021' - LA4 (prep only); 022' - LA4 023' - 505; 031' - HWFE (no warmup); 101' - SCC41; 102' - SCC41; 102' - SCC41; 103' - BHI (Atua); 104' - BH (Manua);								
Drive schedule name	Code identifying a particlar drive cycle, e.g. the FTP	ShiftScheduleSubmission/Shift											'111' - 3BagHWFE; '112' - 3Bag505;		Confirmatory		Manufactur	Front			
SS-56 code	drive cycle.	ScheduleInformationDetails	DriveScheduleNameCode	TRUE		A(3) Enumera	tion						'121' - LA4 (perturbed 1.5)	Light Duty		Required for a new	er	End	XML		
SS-57 Model year	NOTE: Initial entry only.	ShiftScheduleSubmission/Shift ScheduleInformationDetails	ModelYear	FALSE		N(4) Date			4		1970	2100	1970 2100	Light Duty	Confirmatory Test	shift schedule submission.	Manufactur er	Front End	XML		
SS-58 Comments	Enter additional information about the shift schedule.	ShiftScheduleSubmission/Shift ScheduleInformationDetails	ShiftScheduleCommentT ext	FALSE		A(200) String	1	200						Light Duty	Confirmatory Test		Manufactur er	Front End	XML		
	System-assigned when initially creating a shift schedule. To modify a shift point, a shift time must exist for the shift schedule. To insert a new shift point, a new shift point is submitted but not the shift point number the system will		EAL	TRUSE		A(200) Junig		200						Light Duy	1651		Verify(Man	LING	AWL		SS-BR7: The Shift Time (SS-60) entered for a Shift Point (SS-69)
	point numbers to include the	t ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi	-	FALSE							1				Confirmatory		facturer when not	Front	ХМІ	LD-CFT-SS-BR007	must be greater than the Shift Time (SS-60) of the previous Shift Point (SS-59). SS-BR8: The Shift Point (SS-59) must be specified for all the entries or none of them.
SS-59 Shift point number	new shift point. Time in seconds from	tPointDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi	ShiftPointNumber		1n 1shiftPoint	N(3) Integer			3			999		Light Duty	Confirmatory		new) Manufactur	Front			SS-BR7: The Shift Time (SS-60) entered for a Shift Point (SS-59) must be greater than the Shift Time (SS-60) of the previous Shift
SS-60 Shift time	beginning of test drive cycle	ShiftScheduleSubmission/Shift	ShiftTimeMeasure	TRUE	Number 1shiftPoint	N(5,1) Decimal	-		5	1	0	2500	0000.0 - 2500.0	Light Duty			er	End	XML	LD-CFT-SS-BR007	Point (SS-59).
SS-61 Shift speed	in miles per hour (MPH) only	ScheduleInformationDetails/Shi ytPointDetails	ShiftSpeedMeasure	FALSE		N(4,1) Decimal			4	1	0		000.0 - 200.0	Light Duty	Confirmatory Test		Manufactur er	Front End	XML		
SS-62 Shift action code	Code describing a shift ever such as a shift from 1-2	ShifScheduleSubmission/Shift Schedulenformation2etaileShi domDetaile 200	ShiltActionCode	TRUE	1shiftPoint Number	A(2) Enumera	ion						20         deckubr, Bo         -deckubr, Bo           21         deckubr, Bo         -deckubr, Bo           22         deckubr, Bo         -deckubr, Bo           23         deckubr, Bo         -deckubr, Bo           24         deckubr, Bo         -deckubr, Bo           24         deckubr, Bo         -deckubr, Bo           24         deckubr, Bo         -deckubr, Bo </td <td>Light Duty</td> <td>Confirmatory</td> <td></td> <td>Manufactur or</td> <td>• Front End</td> <td>XML</td> <td></td> <td></td>	Light Duty	Confirmatory		Manufactur or	• Front End	XML		
Alternative Shift Action SS-63 Description	Enter only if 'shift action code' = 99	ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi tPointDetails	ShiftPointScreenText	FALSE	1shiftPoint Number	A(9) String								Light Duty	Confirmatory		Manufactur er	Front End	ХМІ	I D.CET.SS.BR003	SS-BR3: If Shift Action Code (SS-62) is equal to '99' (Alternative Sh Action), then Shift Point Screen (SS-63) is required.
SS-64 Shift point H/V indicate		a on a other others	n/a	FALSE	- salliber	A(9) Sung A(1) Enumera	Ű						'H' or 'V'	Light Duty	Confirmatory		EPA	Back End	Data Entry	20-011-00-08000	noion, non onit romt outen (00-00) is required.
SS-65 Shift point L/R indicate			n/a	FALSE		A(1) Enumera							L' or 'R'	Light Duty	Confirmatory		EPA	Back End	Data Entry		
SS-66 Exception point code	asterisk, 'N' or blank include this shift point speec in the VDA shift pattern calculations; 'Y or X' do not include this shift point speed in the VDA shift pattern calculations		ExceptionPointCode	FALSE	1shiftPoint Number	A(1) Enumera	tion						" (asterisk), "N', blank, 'Y', 'X'	Light Duty	Confirmatory		EPA	Back End Back	XML Data		
SS-67 Cruise point	For EPA use only	-	n/a	FALSE		A(1) String	1	1		1	1			Light Duty	Test		EPA	End	Entry		

EPAData element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data D. Type De	ata Type escription	<u>Min. Max</u> Length Lengt	h Pattern	<u>Total</u> Fran Digits al D	<u>tion</u> gits Min Value	Max Value	Allowed Values		Industry	Process	Notes/Questions	Ωrigir or	at <u>Collecti</u> on Point	Collecti on Type	Applicable Business Rules	Validation Rules
		Select the desired	SupplementalInformati			1 per CT								Look-up Values									
SI-0.5	Process Code	process code for the current submission.	mentalInformationDeta Is	InformationProc essCode	TRUE	Supplemental Information	A(1) Ens	umeration	1 1			_		N = New dataset C = Correction of existing	Verify dataset	Light-Duty	Confirmatory Test		Manu ture	ac Front r End	XML		already exist in the system with the same Vehicle D (Si-2), Vehicle Configuration (Si-3),
																							Manufacturer Code (SI-1) and Model Year (SI-3.5). SI-BR5: Either a shift schedule with the Manufacturer Code (SI-1), Shift Schedule ID (SI-46) and Shift Schedule Database Code (SI-47) must texts in the system, or a shift schedule with the LOD Manufacturer Code, SiHs Schedule (SI-44) and Shift Schedule Database Code (SI-47) must
																							exist in the system. SNBR10: If the Process Code (SI-0.5) is equal to 'R' (Report <mark>), then</mark> the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SI-1) of the dataset for which the record was reloased.
		The manufacturer code will be determined from the data submitter's CDX user login profile. The																					SHBR11: If the Process Code (SH-0.5) is equal to TV (New) or C' (Correction), then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SI-1) of the submitted dataset.
		manufacturer code is an alpha-numeric code which identifies a unique vehicle																				LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b	SHBR 12: If Process Code (SH0.5) is equal to 1N (New) then a Decision Information record must already exist in the system with the same Vehicle ID (SH2), Vehicle Configuration (SH3), Manufacturer Code (SH1), and Model Year (SH3.5).
SI-1	Manufacturer code	manufacturer. This code is assigned by EPA during the manufacturer registration process.	SupplementalInformati onSubmission/Supple mentalInformationDeta Is	EPAManufactur erCode	TRUE	1 per CT Supplemental Information	A(3)	String	3 3	[A-20- 9](3)						Light Duty	Confirmatory Test		CD: From User Info		XML	LD-CFT-SI-BR005 LD-CFT-SI-BR010 LD-CFT-SI-BR011 LD-CFT-SI-BR012 LD-CFT-SI-BR013	SI-BR13: If Process Code (SI-0.5) is equal to Y (Vew), then a Supplemental Information record cannot already with the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5).
		Enter the applicable test vehicle identification number for this set of supplemental confirmatory test information. The vehicle ID is a unique, manufacturer-defined, alpha-num eric identification number that is assigned to each manufacturer test																					
		vehicle. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle																				LD-CFT-SI-BR001a LD-CFT-SI-BR001b	SIART: Fincess Code (SI-6.3) is equal to TR (Report) or C (Controlon), then a record must instry data the spectrum with the same Whitel Co (SI-2), Whitele Configuration (SI-3), Manufacture Code (SI-1) and Model Year (SI-3.5). SIART: 21: Process Code (SI-6) is equilibre V (New) then a Decision Information record must instry ret in the system with the same Whitele (D (SI-2), Whitele Configuration (SI-3), Manufacture Code (SI-1), and Model Year (SI-3.5).
SI-2	Vehicle ID	Information database prior to submitting supplemental confirmatory test information.	SupplementalInformati onSubmission/Supple mentalInformationDeta Is	VehicleIdentific ationText	TRUE	1 per CT Supplemental Information	A(20)	String	1 20							Light Duty	Confirmatory Test		Manu ture	iac Front r End	XML	LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b LD-CFT-SI-BR012 LD-CFT-SI-BR013	SIBR13: If Process Code (SI-0.5) is equal to N (New), then a Supplemental Information record cannot already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5).
		Enter the applicable test vehicle configuration number for this set of supplemental confirmatory test information. The vehicle configuration number is used to denote multiple configurations of a																					
		configurations of a single test vehicle ID. The combination of test vehicle ID and vehicle configuration number entered here must be established in																					SIBR: P Process Code (Si-0.5) is equal to % (Report) or C* (Connection), then a record must already exist in the system with the same Vehicle D (Si-2), Whitele Configuration (Si-3), Manufacture Code (Si-1) and Model * (Si-3.5). SIBR(12: HProcess Code (Si-0.5) is equal to ½ (New) fean a Decision Information record must already write in the southmething B (Si-4).
		Verify's Test Vehicle Information database prior to submitting supplemental confirmatory test	SupplementalInformati onSubmission/Supple mentalInformationDeta	VehicleConfigu		1 per CT Supplemental													Manu ture	ac Front		LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b LD-CFT-SI-BR012	alrady reals in the system with the same Weble B (25-2), Vehicle Configuration (Si-3), Manufacturer Code (Si-1), and Model Yaar (Si-3). SI-BR13: I Process Code (Si-3) is equal to Y (New), then a Supplemental Information record cannot alrady exist in the system with the same Vehicle D (Si-2), Vehicle Configuration (Si-3), Manufacturer Code (Si-1), and Model Yaer (Si-3).
SI-3	Vehicle Configuration #	information.	ls	ationNumber	TRUE	Information	N(2)	Integer	1 2			0	99			Light Duty	Confirmatory Test E	.g. 701*	ture	r End	XML	LD-CFT-SI-BR013	SHBR1: If Process Code (SI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1) and Model Year (SI-3.5).
			SupplementalInformati																			LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a	SI-BR12: II Process Code (SI-0.5) is equal to 'N (New) then a Decision Information record must already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5).
SI-3.5	Model Year	Enter the model year for which the vehicle is being tested. The value for this field	onSubmission/Supple mentalInformationDeta Is	ModelYear	TRUE	1 per CT Supplemental Information	D(4)	Date	4 4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1970	2050			Light Duty	Confirmatory Test		Manu ture	ac Front r End	XML	LD-CFT-SI-BR004b LD-CFT-SI-BR012 LD-CFT-SI-BR013	SI-BR13: If Process Code (SI-0.5) is equal to 'N' (New), then a Supplemental Information record cannot already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5).
SI-4	Curb weight	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.			TRUE	1 per CT Supplemental Information	N(5)	Integer				0	14000			Light Duty	Confirmatory Test	VI-29	Verit	Back y End	Pre Existing Data		
<u>urv</u>		Enter the actual or estimated drive axle weight with an empty fuel tank for this test vehicle configuration.	Sundamartilista				(4(3)	94w												,			
SI-5	Drive axle weight w/ empty tank of fuel	The weight must be	onSubmission/Supple mentalInformationDeta Is	DriveAdeWeigh EmptyTankValu e	TRUE	1 per CT Supplemental Information	N(5)	Integer				200	14,000			Light Duty	Confirmatory Test	200 <= WEIGHT <= 14,000	Manu ture	ac Front r End	XML		
	Drive axle weight w/full	Enter the actual or estimated drive axle weight with a full fuel tank for this test vehicle configuration. The weight must be provided in units of	Supplemental Informati onSubmission/Supple mentalInformationDeta	Drive AdeWeigh		1 per CT Supplemental													Manu	ac Front			
SI-6	tank of fuel	pounds.	ls	FullTankValue	TRUE	Information	N(5)	Integer				200	14,000	J		Light Duty	Confirmatory Test 2	00 <= WEIGHT <= 14,000	ture	r End	XML	1	

Pink = TBD Green = Label/CAFE/GHG Changes Blue = Misc Certification ed = Misc Text Edits Changes

EPA Data						Bas												
element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity Typ	ta Data Type Descriptio	n Length	Max Length Patter	n Digits a	raction I Digits Min Value	Max Value Allowed Values	Industry	Process	Notes/Questions	Originat or	Collecti on Point on Type	Applicable Business Rules Validation Rules
Confirmato	v Test Supplemental Inform	The value for this field										Look-Up Values: 4 = 4-wheel Drive						
		will be looked-up from the Test Vehicle Information that was				1 per CT Supplemental						4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P = Part-time 4-wheel drive					Pre Back Existing	
SI-7	Test Drive Code	previously entered.	n/a	n/a	TRUE	Information N(1	1) Enumeratio	on				A = All wheel drive	Light Duty	Confirmatory Test	VI-13	Verify	End Data	
		code specifying the location of the steering wheel for this test	SupplementalInformati onSubmission/Supple mentalInformationDetai	o		1 per CT						Look-Up Values:					5	
SI-8	Steering Wheel Location	wheel for this test vehicle. The value for this field	Is	ocationIdentifier	TRUE	Information A(1	1) Enumeratio	on				Look-Up Values; L = Left-hand side R = Right-hand side	Light Duty	Confirmatory Test		turer	Front End XML	
		will be looked-up from the Test Vehicle				1 per CT									VI-22		Pre	
SI-9	Displacement	Information that was previously entered. Select the applicable	n/a	n/a	TRUE	Supplemental Information N(5,	,3) Decimal			5	3	Look-Up Values:	Light Duty	Confirm atory Test	XXXXXX in Liters	Verify	Back Existing End Data	
		numeric code										1 = Otto Spark 2 = Stratified Charge 3 = Dirsel						
		specifying the type of engine design for this test vehicle. For example, '1' = Otto										3 = Dresel 4 = Gas Turbine 5 = Rankine						
		spark. Other possible	SupplementalInformati onSubmission/Supple mentalInformationDetai	LightDutyEngin		1 per CT Supplemental						6 = Stirling 7 = Hybrid 8 = Fuel Cell				Manufac	Front	
SI-10	Engine type code	cell, etc. The value for this field	ls	eTypeldentifier	TRUE	Supplemental Information N(2	2) Enumerati	on				99 = Other	Light Duty	Confirmatory Test		turer	End XML	
	Equivalent test weight	will be looked-up from the Test Vehicle Information that was				1 per CT Supplemental									VI-30		Pre	
SI-12	(ETW)	previously entered.	n/a SupplementalInformati	n/a	TRUE	Information N(	5) Integer				0	14000	Light Duty	Confirmatory Test	check range between 00000 <= WEIGHT <= 1400	00 Verify	Back Existing End Data	
			SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl	FauivaleofTest		1 per CT												
SI-13	Equivalent test weight unit	Value will automatically be set to 'P' = pounds.	ementalInformationDet ails	WeightUnitIdent	TRUE	Supplemental Information A(1	1) String					P = Pounds	Light Duty	Confirmatory Test	Assigned default value = "P"	Verify	Back Assigne End d	8
			SupplementalInformati onSubmission/Supple mentalInformationDetai															
		Will be set automatically to '1'	ls/EPAGeneratedSuppl ementalInformationDet			1 per CT Supplemental											Back Assigne End d	8
SI-14	Model code		ails SupplementalInformati onSubmission/Supple	ModelYear	TRUE	Information A(2	2) String					1 = Sedan	Light Duty	Confirmatory Test	Assigned default value = "1"	Verify	End d	
		MGII ha a at	mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet			1 per CT												
SI-15	Vehicle Type Description	(Cert Emission Data).	ementalInformationDet ails	VehicleTypeDe scriptionText	TRUE	Supplemental Information N(2	2) Integer	_				1 = Cert Emission Data	Light Duty	Confirm atory Test	Assigned default value = "1"	Verify	Back Assigne End d	5
		Enter the front wheel tire pressure used for dynamometer testing	SupplementalInformati															
SL16	Front wheel tire pressure	of this test vehicle, in units of pounds per square inch	onSubmission/Supple mentalInformationDetai Is	FrontWheelTire PressureValue	TRUE	1 per CT Supplemental Information N(2	3) Integer						Light Duty	Confirmatory Test		Manufac turer	Front End XML	
UP TO		Enter the rear wheel tire pressure used for					7) Integer						- 3					
		dynamometer testing of this test vehicle, in units of pounds per	SupplementalInformati onSubmission/Supple mentalInformationDetai	RearWheelTire		1 per CT Supplemental										Manufac	Front	
SI-17	Rear wheel tire pressure	square inch.	ls	PressureValue	TRUE	Information N(2	3) Integer						Light Duty	Confirmatory Test		turer	End XML	
		Enter the standard tire/rim size description as imprinted on the	SupplementalInformati onSubmission/Supple mentalInformationDetai	RimAndTireSize		1 per CT Supplemental										Manufac	Front	
SI-18	Rim and tire size	side wall of the tire. Does this test vehicle	Is SupplementalInformati	DescriptionText DriverSelectabl	TRUE	Information A(2	0) String	1	20				Light Duty	Confirmatory Test		turer	Front End XML	
SI-19	Driver selectable transmission?	have a driver- selectable transmission?	onSubmission/Supple mentalInformationDetai Is	eTransmissionI ndicator	TRUE	Supplemental Information A(1	I) Enumeratio	on				Look-Up Values: Y = Yes N = No	Light Duty	Confirmatory Test		Manufac turer	Front End XML	
		Enter a description of																
		the driver-selectable transmission mode that should be used for																
		this test. For example, drive in fully automatic																
		mode or using the select shift mode. This field is required if	SupplementalInformati onSubmission/Supple	DriverSelectabl		1 per CT												
SI-20	Transmission mode tested description	Driver Selectable Transmission' = 'Y.	mentalInformationDetai Is	eTransmission DescriptionText	FALSE	Supplemental Information A(5	0) String	1	50			1. A ALTORATIC JURY ARREND NO LOCKUM	Light Duty	Confirmatory Test		Manufac turer	Front End XML	SI-BR2: # Driver Selectable Transmission (SI-19) is equal to Y (Yes), then Transmission Mode LD-CFT-SI-BR002 Tested Description (SI-20) is required.
												AG MANUAL 3 GREED(NO CREEPER)     AMANUAL 4 GREED(NO CREEPER)     AMANUAL 4 GREED(NO CREEPER)     AMANUAL 5 GREED(NO CREEPER)     AMANUAL 5 GREED(NO CREEPER)						
												<ul> <li>ALAUTOMATIC 3-SPEED(NO LOCKUP)</li> <li>LI AUTOMATIC 3-SPEED (LOCKUP)</li> <li>ALAUTOMATIC 4-SPEED(NO LOCKUP)</li> <li>ALAUTOMATIC 4-SPEED(NO LOCKUP)</li> </ul>						
												10 - CS MANUAL S SPEED (CREPER) 10 - CS MANUAL S SPEED (CREPER) 12 - CS MANUAL S SPEED (CREPER) 15 - SA2 SEMI-AUTOMATIC 2 SPEED						
												16 - SAJ SEMI-AUTOMATIC 3-SPEED 17 - SA4 SEMI-AUTOMATIC 4-SPEED 18 - SAS SEMI-AUTOMATIC 5-SPEED 20 - MMUMANUAL 6-SPEED(ND CREEPER)						
												21 - AS AUTOMATIC S SPEED (NO LOCKUP) 22 - LS AUTOMATIC S SPEED (LOCKUP) 23 - CEMANUAR & SPEED (CREEPER) 24 - AS AUTOMATIC & SPEED (NO LOCKUP)						
												25 - SAESEMI-AUTOMATIC & SPEED 26 - LA AUTOMATIC & SPEED (LOCKLP) 27 - L7 AUTOMATIC 7-SPEED (LOCKLP) 28 - SAY SEMI-AUTOMATIC 7-SPEED						
		The value for this field will be determined										29 - A7 AUTOMATIC 7-SPEED(NO LOCKUP) 20 - M7 MANUAL 7-SPEED(NO CREEPER) 31 - C7 MANUAL 7-SPEED(CREEPER) 32 - LB AUTOMATIC INSPEED (CREEPER)						
		from the values entered for 'transmission type',										23 - SARSEMI-AUTOMATIC & SPEED 34 - AB AUTOMATIC & SPEED(NO LOCKUP) 25 - MIMANUAL & SPEED(NO CREEPER) 36 - CREATING & SPEED						
		'transmission lockup', creeper gear', and 'number of										37 - M MANUAL <3 OR >6-SPEED 40 - CACVTMADNIE (-SPEED (NO CREEPER) 51 - AND AUTOMATIC-MANUAL 2-SPEED 51 - AND AUTOMATIC-MANUAL 2-SPEED						
		transmission gears' that are part of the Test										12 - AMA AUTOMANI, SAMANUAL SAPEED 53 - AMA AUTOMATIC-MANUAL & SPEED 54 - AMA AUTOMATIC-MANUAL & SPEED 55 - AMA AUTOMATIC-MANUAL & SPEED 55 - AMA AUTOMATIC-MANUAL & SPEED						
SI-21	Transmission Configuration Code	Vehicle Information dataset that was previously entered.	n/a	n/a	TRUE	1 per CT Supplemental Information N(2	2) Enumeratio	on				A 44/100/16 (2014) 6 9500 (2012) 000     A 44/100/16 (2014) 6 9500 (2012) 000     A 44/100/16 (2014) 000     A 44/100/16 (20	Light Duty	Confirmatory Test	VI-36, VI-38, VI-39, VI-40	Verify	Pre Back Existing End Data	
		Select the appropriate				1 per CT Supplemental						101' = Emission Data Vehicle (EDV)					Pre Back Existing	
SI-24	Vehicle purpose	purpose for this test.	SupplementalInformati onSubmission/Supple		TRUE	Information N(2	2) Enumeratio	on		++		'31' = Fuel Economy	Light Duty	Confirmatory Test	DI-25.1	Verify	End Data	SHBR17: II Test Fuel Type Code for EPA Confirmatory Testing (DI-38.5) is not equal to '50'
SI-26	Iominal main tank capacity	main fuel tank capacity	onSubmission/Supple mentalInformationDetai Is	FuelTankCapac ityMeasure	FALSE	1 per CT Supplemental Information N(4,	,1) Decimal			4	1 0	999.9	Light Duty	Confirmatory Test		Manufac turer	Front End XML	(Hydrogen) or '62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank
· · · · · ·																		

number	Long Name ry Test Supplemental Inform	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Length Length Pattern	Digits al Dig	its Min V	alue Max Value	Allowed Values	Industry	Process	Notes/Questions or	on Po	int on Type	Applicable Business Rules	Validation Rules
Contirmate	ry test Supplemental Inform:	ation	SupplementalInformat	i														-		
		Select the applicable fuel tank units. 'G' =	onSubmission/Supple mentalInformationDeta	i FuelTankCapa	c	1 per CT Supplemental							'G' = gallons			Manufa	ac Fror			SI-BR17: If Test Fuel Type Code for EPA Confirmatory Testing (DI-38.5) is not equal to '50' (Hydrogen) or '62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank
SI-27	Fuel tank capacity unit	gallons; L' = liters	ls SupplementalInformat	ityUnitIdentifier	FALSE	Information	A(1)	Enumeration					'G' = gallons L' = liters	Light Duty	Confirmatory Test	turer	Enc	XML	LD-CFT-SI-BR017	(Hydrogen) or 62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank Capacity Unit (SI-27) are required.
		Enter the nominal	onSubmission/Supple	AuxilliaryFuelTa	1	1 per CT														
SI-28	Nominal auxiliary tank capacity	auxiliary tank capacity of the test vehicle.	mentalInformationDeta Is	i nkCapacityMea sure		Supplemental Information	N(4,1)	Decimal		4 1	0	999.9		Light Duty	Confirmatory Test	Manufa turer	Enc	it XML		
3P26	cupacity	The value for this field		Jule	PACOE	incritic con	14(4,1)	Decimai				333.3		eigintooliy	Community reat	Mitter	CTR.			
						1 per CT												Pre		
	Electric dyno target	the Test Vehicle Information that was				Supplemental											Bad	k Existing		
SI-29	coefficient A	previously entered. The value for this field	n/a	n/a	FALSE	Information	N(6,3)	Decimal		6 3	-999.	999 999.999		Light Duty	Confirmatory Test	VI-41 Verify	r Enc	Data		
		will be looked-up from																		
	Electric dyno target	the Test Vehicle Information that was				1 per CT Supplemental											Bad	Pre Existing		
SI-30	Electric dyno target coefficient B	previously entered.	n/a	n/a	FALSE	Information	N(6,5)	Decimal		6 5	-9.99	9999 9.99999		Light Duty	Confirmatory Test	VI-42 Verify	Bad Enc	i Data		
		The value for this field will be looked-up from																		
		the Test Vehicle				1 per CT												Pre		
SI-31	Electric dyno target coefficient C	Information that was previously entered.	n/a	n/a	FALSE	Information	N(7,6)	Decimal		7 6	-9.99	9999 9.999999		Light Duty	Confirmatory Test	VI-43 Verify	Bad Enc	k Existing Data		
		The value for this field																		
		will be looked-up from the Test Vehicle				1 per CT												Pre		
SI-32	Electric dyno set coefficient	Information that was	n/a	n/a	511.05	Supplemental	N(6,3)	Decimal			000	999 999.999		Links Durbs	Confirmatory Test	VI-44 Verify	Bad Enc	k Existing Data		
SI-32	А	previously entered. The value for this field	n/a	n/a	FALSE	information	N(6,3)	Decimal		6 3	-999.	222 222.223		Light Duty	Contirmatory Test	VI-44 Venty	/ End	Data		
		will be looked-up from the Test Vehicle				1 per CT												Pre		
	Electric dyno set coefficient	Information that was				Supplemental											Bad	k Existing		
SI-33	В	previously entered. The value for this field	n/a	n/a	FALSE	Information	N(6,5)	Decimal		7 6	-9.99	9999 9.999999		Light Duty	Confirmatory Test	VI-45 Verify	r End	i Data		
		will be looked-up from	1	1														1		
	Mantaia dana ant anofficiant	the Test Vehicle Information that was				1 per CT											Bac	Pre Existing		
SI-34	Electric dyno set coefficient C	previously entered.	n/a	n/a	FALSE	Information	N(7,6)	Decimal		7 6	-9.99	9999 9.999999		Light Duty	Confirmatory Test	VI-46 Verify	Enc	k Existing Data		
		The value for this field											Look-Up Table Values							
		will be looked-up from the Test Vehicle Information that was	1	1		1 per CT							1' = not equipped 2' = equipped, not shifted by SIL; 3' = equipped, shifted by SIL;					Pre		
01.98	Shift Indicator Light Code	Information that was previously entered.	n/a	n/a	TPUT	Supplemental	A(1)	Enumeratio					3' = equipped, shifted by SIL; 5' = equipped, shifted by Survey Schedule.	Light Dut-	Confirmatory Test	VI-14 Verify	Bad	k Existing Data		
arab	state and the second second second		10.04		INUE	Janon marchi	/(1)	chamerauon						Light Daty	seriminany lest	verity verity		. Juid		
		The 55 mph to 45 mph coastdown time (in	1	1																
		seconds) from the																		
		track (target) coastdown. This field																		
		is optional. If a value i	s SupplementalInformat onSubmission/Supple	i																
		the need to conduct a	mentalInformationDeta	ii TargetCoastDo		1 per CT Supplemental										Manufa	ac From			
SI-37	Target Coastdown Time	55-45 mph coastdown	n. Is	wnTimeValue	FALSE	Information	N(5,2)	Decimal		5 2	-999	.99 999.99		Light Duty	Confirmatory Test	turer	Enc	XML		
		Catao das assessas	Council and a statistical statistics																	
		hybrid battery voltage	onSubmission/Supple	NominalHybrid		1 per CT														
NEW SI-37.5	Nominal Hybrid Battery	for this test vehicle in wolte	mentaInformationDet	BatteryVoltage	EAL OF	Supplemental		later and the second						Light Duty	Confirmatory Test	Manufa	a From	t YMI	NEW-LD-CET-SI-BR026	NEW: If Hybrid Indicator (VI-10.6) is equal to "Yes", then Nominal Hybrid Battery Voltage (SI- 17.5) is required, otherwise it is not allowed.
01-07-05	voltage (volta)	· · · · ·		Turbe	PALOE		PR(3)	integer						Light Duty						or sy a required, energined in a ner allowed.
		Enter the maximum	Supplementalinformat	6																
NEW	Manimum Mahaid Damasa	hybrid battery system	onSubmission/Supple	Maximum Hybr	1	1 per CT										Marriel				NDV. A Merid Indiantes (N. 40 P) is assorber "Ves" along "Meridians" Method Balton Consent" (P)
SI-37.6	Current (amps)	vehicle in amps.	ails	tValue	FALSE	Information	N(3)	Integer			0	999		Light Duty	<b>Confirmatory Test</b>	cturer	r End	XML	NEW: LD-CFT-SI-BR027	NEW: If Hybrid Indicator (VI-10.6) is equal to "Yes", then "Maximum Hybrid Battery Current" (SI- 37.6) is required, otherwise it is not allowed.
				1																
		Select 'Y' = Evaporative emission control	2	1																
		canister is loaded with	1																	
		butane or gasoline vapor prior to the start	SupplementalInformat	i																
		vapor prior to the start of an emission or fuel economy test or 'N' =	SupplementalInformat onSubmission/Supple mentalInformationDeta	Consistent of the		1 per CT							Y = Yes				ac Fror			
SI-38	Canister loading?	economytest or 'N' = No loading required.	mentalInformationDeta Is	i CanisterLoadir gIndicator	TRUE	Supplemental Information	A(1)	Enumeration					Y = Yes N = No	Light Duty	Confirmatory Test	Manufa turer	Enc	it XML		
														ĺ ĺ						
		1	1	1																
		L	L																	
		The number of evaporative emission	SupplementalInformat onSubmission/Supple			1 per CT														SI-BR3: If Canister Loading (SI-38) is equal to Y (Yes), then Number of Canisters (SI-39) is
		control canisters on this test vehicle	mentalInformationDeta	i TotalCanisterC		Supplemental	1. 1					18				Manufa	Fror	t XM	10.077	required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister.
SI-39	Number of canisters	this test vehicle. Enter the working	Is	ount	FALSE	Information	N(2)	Integer			1	18		Light Duty	Confirmatory Test	turer	Enc	XML	LD-CFT-SI-BR003	tor each canister.
		capacity and total																		
		volume for each cannister.				1n														
	Current of Details	Enter the grams of		1		11														
		hydrocarbon which are adsorbed and de-	e SupplementalInformat			1 per Canister														
		sorbed by loading and	onSubmission/Supple	CanisterWorkin	1	1 per Canister Number per CT														SI-BR3: If Canister Loading (SI-38) is equal to 'Y' (Yes), then Number of Canisters (SI-39) is
SI-40	Canister(s) working capacity	purging of the canister on this test vehicle.	mentalInformationDeta Is/CanisterDetails	ii gCapacityMeas ure	FALSE	Supplemental Information	N(3)	Integer				999		Light Duty	Confirmatory Test	Manufa turer	Enc		LD-CFT-SI-BR003	required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister.
0140	сараску		arcanisterbefälls	ule	FALSE	anormason	14(3)	integer			0	333		agnicodty	Commany lest	turer	ENC	ANL	CDPOF IPSPDR003	Not subset subminines.
		Enter the total canister	r	1																
		volume, in cubic centimeters, of	1	1																
		activated carbon in the	Supplemental Information Supplemental Supplementation Suppleme			1 per Canister Number per CT	.													PLDDs. & Consistent and in a (PLDD) is served to 54 PC - 1 A
		control canisters for	onSubmission/Supple mentalInformationDeta Is/CanisterDetails	i TotalCanisterVi	•	Supplemental										Manufa	Enc			SI-BR3: If Canister Loading (SI-38) is equal to 'Y (Yes), then Number of Canisters (SI-39) is required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister.
SI-41	Total canister volume	this test vehicle.	ls/CanisterDetails	lumeMeasure	FALSE	Information	N(6)	Integer			0	999999		Light Duty	Confirmatory Test	turer	Enc	XML	LD-CFT-SI-BR003	for each canister.
		Enter the primary and																		
		Enter the primary and additional engine cooling fan placemen																		
	Engine Cooling Err	cooling fan placemen code for each test	t.																	
	Engine Cooling Fan Placement Details	procedure.				1n														

EPA Data element Basic Data Data Type

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omirmatory lest supplemental informs	ation							_			_										
	The value for this field will be looked-up from the Test Vehicle Information that was previously entered. The vehicle odometer distance units for this test vehicle. 'M = miles; 'K' = kilometers	SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails	OdometerUnits Code	TRUE	1 per CT Supplemental Information	A(1)	Enumeration						Look-Uo Values M = miles V = kioneters	Light Duty	Confirmatory Test	VI-19	Verify	Back End	Assigne d		
	The value for this field will be looked-up from the Test Vehicle Information that was previously entered. The multiplicative numeric adjustment factor used in the equations to calculate "system" miles on this test vehicle.	SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails	Correction Facto rValue	TRUE	1 per CT Supplemental Information	N(5,4)	Decimal			5	4			Light Duty	Confirmatory Test	947	Verify		Assigne		
	The value for this field will be looked-up from the Test Vehicle Information that was previously entered. A 14° or 1° symbol for the odometer correction sign is used to adjust the fuel economy of a test vehicle if the vehicle has over 6200 system miles.	Supplementalinformati onSubmissionSupple mentalinformationDetai Is/EPAGeneratedSuppl ementalinformationDet alis	CorrectionSignI	TRUE	1 per CT Supplemental Information	A(1)	Enumeration						Look-Up Values: V	Light Duty	ConfirmatoryTest	Vi-18	Venify	Back End	Assigne		
SI-53 Wheel base	The distance between the parallel centerlines of the front and rear ake of this test whicle. This is needed for setting the front and rear roll spacing for testing four wheel drive vehicles on a chassis dynamometer. The wheel base units	Supplementalinformati onSubmission/Supple mentalinformationDetai Is	WheelBaseMea sure	TRUE	1 per CT Supplemental Information	N(3)	Integer					0 999		Light Duty	Confirmatory Test		Manufac	Front End	XML		
	for the wheel base distance provided above for this test vehicle. 'm' = inches, or 'cm' = centimeters.	SupplementalInformati onSubmission/Supple mentalInformationDetai Is SupplementalInformati onSubmission/Supple mentalInformationDetai	WheelBaseUnit sldentifier TestVehicleCo	TRUE	1 per CT Supplemental Information	A(2)	Enumeration						<u>Look-Up Values:</u> In = inches, 'em' = centimeters	Light Duty	Confirmatory Test		Manufac turer Manufac	Front End	XML.		SIBRE: I Engine Type (S-10) is equal to 'Oher' (99) then Test Vehicle Infomation Comments
SI-55 Comments	Manufacturer defined.	ls	mmentText	FALSE	Information	A(1000)	String	1 1	1000					Light Duty	Confirm atory Test		turer	End	XML	LD-CFT-SI-BR006	(SI-55) are required. (SI-55) are required. SI-BR18: If a Test Procedure Code Selected for EPAConfirmatory Testing (SI-41.5) is equal to
	ts and Cert Levels enter The test group that was entered on the original Confirmatory Test Decision Information (DI-7) will be picked up by Verify	ed for each Certification SupplementalInformation onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails/EPAGeneratedExh austEmissionCertificati			1 per CT Supplemental									Light Duty		The test group should be pulled in from the Confirmatory Test Decision Information stored or		Back	Arrigge	SI-BR18	37, 217, 257, or 390, then at least one Exhaust Standard for the test procedure (SH22) is required SH2R118: If a Test Procedure Code Selected for EPAC onfirmatory Testino (SH115) is equal to
SI-55 Test Group SI-56 Certification Region Code	on the back-end. '	onLevelDetails SupplementalInformati onSubmission/Supple mentalInformationDetails iscRaturgEmissionSt andardDetails	e CertificationReg ionCode	TRUE	Information I per Combination Combination Combination Control Certification Code + Certification Code + Vehicle Certification Ce	e :t +	String Enumeration	12	12				CA+ California + CAASertion 177 states FA+ Federal	Light Duty	Confirmatory Test	file back-end (D-7)	Verify Manufac turer	Front End	Assigne d XML	LD-CFT-SHERO16	<ol> <li>21, 22, or 90, then at least one Exhaust Standard for the test procedure (S-92) is required.</li> <li>SHB15: If a Test Procedure Code Selected for EPAC confirmatory Testing (S-41.5) is equal to 3, 21, 22, or 90, then at least one Exhaust Standard for the test procedure (S-92) is required.</li> </ol>
	Verify will assign a default union of "C" (Centification) for all Supplemental Information stundards.	Supplemental/hformati ordsafmission/Supplei methallformatelfmission/Supplei substitutettimission/Supplei andard/Details	CertificationInU seCode	TRUE	1 per combination of Test Group + Certification Region Code + Certification/InUte Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standardLOF info	t	Enumeration						C - Certification	Light Duty	ConfirmatoryTest	Assign a default value = "C"	Venify	Front	Assigned	LD-CFT-SH8R014	SI-BR14: Exhaust Certification/h-Use Code (SI-80) must equal C' (Certification). SI-BR14: Ta Test-Procedure Code Selected for EPA-Continnatory Testing (SI-41.5) is equal to 2 , 21, 72, 72, 99, 99) and tasts for EBA-continuation for the selectoredure (SI-82) an equival.

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EPA Data element

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Basic Data Data Type

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EPA Data element pumber Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Data Type Type Description	<u>Min Max</u> Length Lengt	Total Fraction h Pattern Digits al Digits	Min Value Max Value	Allowed Values	Industry	Process	NotesiQuestions	Originat or on Poin	Collecti on Type Applicable Business Rules	Validation Rules
Footfrmater, Test Supplemental Infor	mailen	Supplementalinformati			1 per combination of Test Group + Certification - Region Code + Certification-flutus e Code + Vehicle Clasmischaust Standard Level + Fuel + Test Procedure + Useful Lée + Emission Name identifies a unique set of					Ear Facture or California Certification Region.           Color:         DVI - LDVI (MV 9740, CWV 0-6000).           DVI - LDVI (MV 9740, CWV 0-6000).         LDVI - LDVI (MV 9740, CWV 0-6000).           LDVI - LDVI (MV 9740, CWV 0-6000).         LDVI - LDVI (MV 9740, CWV 0-6000).           LDVI - LDVI (MV 9740, CWV 0-6000).         LDVI - LDVI (MV 9740, CWV 0-6000).           MDVI - LDVI (Febrail HO 1-6000).         LDVI - LDVI (MV 9740, CWV 0-7760, C						SHBR18: If a Test Procedure Code Solected for EPAContinnatoryTesting (SI+1.5) is equal to '2',
SI-91 Vehicle Class	Select the applicable vehicle class for this exhaust standard.	onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionsSt	VehicleClassId entifier	TRUE	exhaust standard/DF info. 1n	A(4) Enumeration				For California Certification Region Code: M6 - MDV6 (Cal. LEV 2 MDV GVW 8501-10000 M7 - MDV7 (Cal. LEV 2 MDV GVW 10001- 14000)	l. Light Duty	Confirmatory Test		Manufac Front turer End	LD-CFT-SI-BR018 XML LD-CFT-SI-BR025	3°, 21°, 25°, or 90°, then at least one Exhaust Standard for the test procedure (SH-S2) is required. SHBR25: The EPA Vehicle Class (SH91) cannot be equal to 'LDVT' (LDV + LDT1) at the Exhaust Emission Standard Level.
Exhaust Emission Standars S:477A Level	Select the applicable e standard lovel for this exhaust standard.	SupplementalInformati onSubmission/Supple mentalInformationDeatu Exchanast Rimissions St andardDetails	ExhaustEmissi onsStandardLe velidentišer	TRUE	1 per combination of Test Group + Certification/Ruts ecode + Vehicle Class + Exhaust Encide + Vehicle Standard Level + Fuel + Test Procedure + Usehil Life + Emission Name eintifies a unique set of exhaust standard/DF info. 1_n	A(5) Enumeration				61 - Bin 1 62 - Bin 2 63 - Bin 3 64 - Bin 5 66 - Bin 6 66 - Bin 6 67 - Bin 7 68 - Bin 6 68 - Bin 1 69 - Bin 1 69 - Bin 1 69 - Bin 1 100 - Fel 100 - Day Objectsis Cer Sel 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.5 - CARE LEV LEV 3.5 - CARE LEV	Light Duty	Confirmatory Test		Manufac Front lurer End	LD-GT-SH8RD18 XXL D-GT-SH8RD18	SHBR115: If a Test Procedure Code Selected for EPAConfirmatoryTesting (SI-11.5) is equal to 27, 7, 21, 22, 07.993, then at least one Enhancis Bandas for the test procedure (SI-42) is required. SIBR21: effor Centerion Region Code (SI-6) for 17 (reference) free the Exhaust Emission Standard Level (SI-574) should be a Federal Bandasd.
51-66.5 Pant	Select the applicable fuel for this exhaust standard.	Supplementalinformati onSubmission@submission@sub IstEAtuatsEmissions21 andardDetails	Fuelkdentifier	TRUE	1 per combination of Test Group + Certification n Certification/InUs e Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Usehil Life + Emission Name identifies a unique set of exhaust standard/DF inflo.	A(3) Enumeration				G - Caustion D - Stread M - Michanol Cite: Compress Matural Oss Cite: Compress Matural Oss Cite: Compress Matural Oss Cite: Compress Disc: Co	Light Duty	ConfirmatoryTest		Manufac Front Luter End	LDCTT-5480918 3X4. NIY: LDCTT-5480918	SHBR18: If a Test Procedure Code Selected for EPAContimutory Testing (SI-11.6) is equal to "2", "2", "2", "2", "2", "2", "3", "4", "4", "4", "4", "4", "4", "4
SI-92 Test Procedure	Enter the applicable test procedure for this exhaust emission standard.	Supplementalinformati or&umission@suppl latEAtaustEmailon2 andardDetais	Tes:Pocedure1 dentifer	TRUE	1 per combination of Test förug + Certification Certification Code v Velicie Class + Exhaust Emission Sandard Level + Procedure + Emission Nare identifies a unique set of exhaust standardDP info.	N(2) Enumeration				Local Analysis and Later and La	Light-Duty	Continuatory Test		Manufac Front	AL LDCT:518018	SHBR18: Ha TestProcedure Code Selected for EPACcontinuatory Testing (SH11.6) is equal to '2', '7', '2', '2', '9', 'Pen at least one Enhance Enhanced for the test procedure (SH21.6) is equal to '2',
3140 Userful Life Mileoge	Select the applicable useful life mileage for the exhaust standard.	SupplementalInformati onSubmissionSupplementalInformationDetai IsE-Braudz Fina Sions2 andstriDetails	Useful Life/Miea geldentifier	TRUE	1 per combination of Test Group + Certification //US Region Code + Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1_n	N(3) Enumeration				4 = 4,000 miles 00 = 50,000 miles 103 = 103,000 miles 103 = 103,000 miles	Light Duty	ConfirmatoryTest		Manufac Front Jurer End	30L LD-071-51-89(018	SHBR18: If a Test Procedure Code Selected for EPAC confirmatory Testing (SH1.5) is equal to 27, 7, 717, 25, or 90; free at least one Enhance Bandard for the test procedure (SH2) is required.

EPA Data element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Length Le	Max ength Pattern	Total Fra Digits al	action Digits M	lin Value M	Aax Value	Allowed Values	Industry	Process	Notes/Questions	Origina or	t Collecti on Point	Collecti on Type	Applicable Business Rules	Validation Rules
S+59	re et supprend ander	Select Bo applicable emission same for Bit ehaust standard.	Supplementalihotemati enSuhmisionSupple LineThaustiff mais sions 20 andardDetails Supplementalihotemati	TesiResultident	TRUE	1 per combination of Test (Snoup) Region Code + Certification Region Code + Catas + Ebhauer Catas + Ebhauer Catas + Ebhauer Jonadar Love + Testission Name Jonadar Love + Testission Name Jonadar Love + Standard Love + Standard De Into. 1.n	A(16)	Enumeration							Of Schulzmannen     Official Carbon Related Ethouses     Official Carbon Related     Official Carbon Related	Light Duty	ContinuatoryTest		Manufa	c Front End	XML	LD-CTT-SI-BROTS Add LD-CTT-SI-BROTS LD-CTT-SI-BROTS LD-CTT-SI-BROTS CTT-SI-BROTS NEW	SHBR15: If a Test Procedum Code Selected for EPA/Confirmatory Testing (SH41.5) is equal to 7, 7, 72; 72; 73; 70; 70; 70; 74; 74; 74; 74; 74; 74; 74; 74; 74; 74
SH61	Emission Standard Value	generated numeric field based on converting the text value entered by the manufacturer for "Emission Standard Value (Text)" (SI-62).	onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails/EPAGeneratedExh austEmissionCertificati	EmissionStand ardValue	TRUE	11 for each unique set of exhaust standard/DF info.	N(7,4)	Decimal			7	4	0 9	99.9999		Light Duty	ConfirmatoryTest	e .	Verify	Back End	Assigne d	LD-CFT-SI-BR018	SHBR18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SH 1.5) is equal to $\mathcal{I}_{-}$ $\mathcal{I}_{-}$ 21, $\mathcal{I}_{-}$ $\mathcal{I}_{-}$ with then at least one Enhance Submidted for the test procedure (SH 20) is required.
SI-62	Emission Standard Value (Text)	Enter the applicable numeric value for this exhaust standard name including any additional digits that are necessary for proper rounding. Select the applicable	SupplementalInformati onSubmission/Supple	ExhaustEmissi onsStandardVal ueText	TRUE	11 for each unique set of exhaust standard/DF info. 11 for each	A(8)	Numeric string		([0- 9)(1,3)[\. ]](0- 9)(1,4))] ([\.][0- 9)(1,4))] ([0- 9)(1,3)[\. 9)(1,3)[\. .]?)					MFRA – Mr. Assigned EPAA – EPA Assigned	Light Duty	Confirmatory Test		Manufa turer	c Front End	XML.	LD-CFT-SI-BR018	SHB118: If a Test Procedum Code Selected for EPA.Confirmatory Testing (SH41.5) is equal to 27, 27, 29, or 90, even at least one Exhaust Standard for the test procedure (SH42) is required.
SI-58	Exhaust Deterioration Factor Type	deterioration factor type for this exhaust standard name. If this is an NMOG standard, is the	<ul> <li>mentalInformationDetai</li> <li>ls/ExhaustEmissionSt andardDetails</li> <li>SupplementalInformati onSubmission/Supple mentalInformationDetai</li> </ul>	er	TRUE	unique set of exhaust standard/DF info. 1_1 for each unique set of	A(4)	Enumeration							MFRD = Mfr. Determined AGED = Aged components installed In the emission data vehicle	Light Duty	Confirmatory Test	t	Manufa turer	c Front End	XML	LD-CFT-SI-BR018	SHBR18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SH11.5) is equal to 2; "2; 21,"25, or '90, then at least one Exhaust Standard for the test procedure (SH92) is required.
SI-58.5	Using NMOG/NMHC Ratio?	NMOG/NMHC ratio being used? If applicable, enter the value for the NMOG/NMHC ratio for this exhaust standard	Is/ExhaustEmissionsSt andardDetails SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ErhaustEmissionsSt	RatioIndicator	FALSE	standard/DF info.	A(1)	Enumeration							Y = Yes N = No	Light Duty	Confirmatory Test	t	Manufa turer Manufa	c Front End	XML.	LD-CFT-SI-BR018	SHBR18: II:a Test Procedum Code Selected for EPAConfirmatory Testing (BL41.6) is equal to 2: 37. 217. 25. or '90', then at least one Exhaust Standard for the test procedure (SH22) is required. SHBR18: II:a Test Procedum Code Selected for EPAConfirmatory Testing (SL41.6) is equal to 2:
SI-58.6 SI-63	Ratio of NMOG/NMHC	name. If applicable, enter the additive deterioriation factor (DF) value for this exhaust standard	andardDetails SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionSSt andardDetails	RatioValue AdditiveDeterior ationFactorValu	FALSE	standard/DF info.	N(3,2)	Decimal			3	2	0.00	9.99		Light Duty	Confirmatory Test		turer Manufa	End c Front End	XML	LD-CFT-SI-BR018 SI-BR7 LD-CFT-SI-BR018	37, 217, 257, or 907, then at least one. Enhaust Standard for the test procedure (Si-92) is required.     SI-BR7. Availue can ather be entered for additive or multiplication, but not both.     SI-BR18: Is a Test Procedure Code Selected for EPA Confirmatory Testing (Si-1.5) is equal to 27     72, 173, 507, 607, 104 han at least one Enhaust Standard for the test procedure (Si-92) is required.
SI-64	Multiplicative DF	If applicable, enter the multiplicative deterioriation factor (DF) value for this exhaust standard name.	SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionSt	MultiplicativeDet eriorationFactor Value	FALSE	11 for each unique set of exhaust standard/DF info.	N(4,3)	Decimal			4	3	1	9.999		Light Duty	Confirmatory Test	t	Manufa	c Front End	XML	CI-BR7 LD-CFT-SI-BR018	11-117. A value can effect be entered for addition or multiplication, but notices     11-1187. A value can effect be entered for addition or multiplication, but notices     11-1187. The Test Procedure Code Selected for EPAC confirmatory Testing (S1-41.5) is equal to 2     12.1.2.3.2.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
SI-93	Upward Diesel Adjustment Factor	If applicable, enter the upward diesel adjustment factor value for this exhaust standard name.	e Supplementalinformati onSubmission/Supple mentalinformationDetai Is/ExhaustEmissionsSt andardDetails	UpwardDieselA djustmentFacto rValue	FALSE	11 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			7	6 -9	.999999 9	9.999999		Light Duty	ConfirmatoryTest	t .	Manufa turer	c Front End	XML.	LD-CFT-SI-BR008 LD-CFT-SI-BR018	SI-BR8: If Fuel (SI-66.5) is equal to D' (Diesel), then Upward Diesel Adjustment Factor (SI-33) is required. SI-BR116: If a Test Procedum: Code Selected for EPA Confirmatory Testing (SI-41.5) is equal to 2 2, 21, 25, or 90; then at least one Exhaust Standard for the test procedure (SI-92) is required.
SI-94	Downward Diesel Adjustment Factor	If applicable, enter the downward diesel adjustment factor value for this exhaust standard name.		DownwardDies elAdjustmentFa ctorValue	FALSE	1_1 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			7	6 -9	999999 9	9.999999		Light Duty	Confirmatory Test	t	Manufa turer	c Front End	XML.	LD-CFT-SI-BR009	SHBR#. IF Fuel (SH56.5) is equal to 'D' (Diesel), then Downward Diesel Adjustment Factor (SH94) is required. SHBR18: II. TestPhocedure Code Selected for EPA Confirmatory Testing (SH15.) is equal to '2 ', 2'1, '25', or '90', then at least one Exhaust Standard for the test procedure (SH21.) is required.
SI-65	Reactivity Factor (RAF)	If applicable, enter the reactivity factor for this exhaust standard name. Enter any additional		ReactivityFactor Value	FALSE	1_1 for each unique set of exhaust standard/DF info.	N(5)	Integer					0	99,999		Light Duty	Confirmatory Test	use for NMOG, Methane. Note: for Tier 2 (Bin 1-11) emissions it will be t defaulted to 1.0 for NMOG and 0.0 for Methane	Manufa turer	c Front End	XML.	LD-CFT-SI-BR018	SI-BR 18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SI-41.5) is equal to 2 3', 21', 25', or 90', then at least one Exhaust Standard for the test procedure (SI-92) is required.
SI-67	Exhaust/Evaporative Emission Standard Comments Evaporative and Refueling I	comments for the exhaust or evaporative standards for this test vehicle.	SupplementalInformati onSubmission/Supple mentalInformationDetai Is	EmissionsStan dardCommentT ext Each Certified R	FALSE	1 per test vehicle configuration	A(1000)	String	1 1	1000						Light Duty	Confirmatory Test	t Data type exists	Manufa turer	c Front End	XML	LD-CFT-SI-BR018 SI-BR19	SHB11E is a Test Procedure Code Selected for EPA Confirmatory Testing (SH 1.5) is equal to $32.512$ and $32.522$ (SH 2.5) are a factor of Edward Selected for the test procedure (SH 21) is trajented. The test processor (SH 21) is trajented at the test processor (SH 21) is trajented
\$1-95	Evaporative/Refueling Family Name	The exportive/reducting tamly that was entered on the original Confirmatory Test Decision Information IoF-8 will be picked up by Venity on the back- end.	Supplementalinformati onSubmission/Supple mentalinformationDeat intErPAGeneratedSuppl ementalinErPAGeneratedSup porate@missionCertiti cationt_em01batis	EvaporativeRef uelingFamilyNa me	FALSE	Test Group + Evap Family+ Evap Certification Region Code + Certification/InUs e Code + Evap Emission Standard Level + Fuel + Test Procedure + Usaful Life + Emission Name identifies a unique setof evap standard/DF info. 0.n	A(12)	String	12	12						Light Duty	Confirmatory Test	The expositive interval of the should be public in from the Cardina and your should be back-are (0.14).	Verify	Back End	Assigne d	LD-CFT-SI-BR019	S1-8819: If a Test Procedum Code Selected for EPAC onfirmatory Testing (S-41 &) is equal to 27 or 27, then at least one ExeparativeReleting Bandard for the Test Procedure (S-98) is required.

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EPA Data element							Basic Data D.	sta Type	Min Ma	ax	Total Fr	action							Origina	Collecti	Collecti		
number	Long Name ry Test Supplemental Infor	Description mation	Parent's Name	XML Tag	Required	Multiplicity	Type De	scription L	Length Len	gth Pattern	Digits al	Digits Min	Value N	/lax Value	Alowed Values	Industry	Process	Notes/Questions	10	on Point	on Type	Applicable Business Rules	Validation Rules
SI-72	Useful Life Mileage	Select the applicable useful life mileage for this exportative standard.	SupplementalInformati onSubmission?SupplementalInformationDeta IstEvaporativeEmission SatandardDetails	Useful LifeMilea geldentifier	Er F C S	Test Group + Evap Family + wap Certification Region Code + ertification/InUs e Code + Evap Emission tandard Lovel + Fuel + Test Procedure + Useful Life + mission Name Useful Life + mission Name identifies a unique setof evap tandard/DF info. 0.n	N(3) Ели	meration							4 – 4,000 miles 50 – 500,000 miles 100,000 miles 190 – 150,000 miles	Light Duty	Confirmatory Test		Manufai turer	: Front End	XML	LD-CFT-SHBR019	S18819: III a Test Procedure Code Selected for EPA Confirmatory Testing (S-H 5) is equal to 27 or 27, then alkast one Exaporative/Retueling Standard for the Test Procedure (S-98) is required.
SI-71	Test ResultEntation Nam	e evaporative standard.	Supplemental informati onSubmissionObjection InFormative Emission Salandard Deals	TesResulident	En F C S E	Test Group + Evap Family + ap Certification Region Code + Eraision Amadad Level + Foel + Test Procedure + Usebil Life + mission Name identifies a unique setod evap andardDF info. 0.n	A(16) Enc	meration							Bit Share (Construction)     Construction     Constonstruction     Construction     Co	s t- Light Duty	Confirmatory Test	CREE and Ops-CREE are not valid values fore since IPs and Standards will not be submitted f tem.	er Manufa	: Front End	XML	LD-CFT-58-88019 ID-CFT-58-88021 ID-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-880219 LD-CFT-58-8802	SLBB19: IIIs Test Procedure Code Selected for EPA Confirmatory Testing (S-H15) is equal to 27 or 27, hen at least one Ecoporative/Retueling Standard for the Test Procedure (S-B8) is required. SLB211: If the Ecoporative Standard Test Procedure (SLBB1) is an ORVR (24 or 44) or for Intening SLB211: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed for ORNE 27) tests: CH2 = Code (SLBB2) and SJ 44 of A1 Naming Loss TEst Honoraum (SLBB2) and 27) tests: CH2 = Code (SLBB2) and SLB 44 of A1 Name (SLB1).
SI-74	Evaporative Emission Standard Value	This is a system- generated numeric field based on converting the text value entered by the manufacturer for "Evaporative Emission Standard Value (Text)" (SI-76).	SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EPAGeneratedSuppl ails/EPAGeneratedEva porativeEmissionCettif cationLevelDetails	ssionsStandard	TRUE st	11 for each unique set of evap tandard/DF info.	N(7,4) E	lecimal		([0-	7	4 01	0000 9	999.9999		Light Duty	Confirmatory Test		Verify	Back End	Assigne d	LD-CFT-SI-BR019	S188115-11 a Test Procedure Code Solvers for ESN Confirmancy Testing (S-41.5) is result to 25 for 27 from all least toric Desponation Relativiting Standard for the Test Procedure (S-98) is required.
SI-75	Evaporative Emission Standard Value (Text)	Enter the applicable numeric value for this evaporative standard name including any additional digits that are necessary for proper rounding.	SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails			11 for each unique set of evap landard/DF info.	A(8)	String	1 8	9](1,3)[( .][0- 9)[1,4))[ ([\][0- 9][1,4))[ ([0- 9][1,3)[( 8]?)						Light Duty	Confirmatory Test		Manufa tuer	Front End	XML	LD-CFT-SI-BR019	SHBR19: If a Test Procedure Code Selected for EPA Confirmatory Testing (S-41.5) is equal to 22 or 27, then at least one Evaporative/Refueling Standard for the Test Procedure (S-98) is required.
SI-73	Evaporative Deterioration Factor Type	Select the applicable deterioration factor type for this evaporative standard.	SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails	DeteriorationFa ctorTypeldentifi er		1_1 for each unique set of evap tandard/DF info.	A(4) Enc	meration							MFRA – MF: Assigned EPAA – EPA Assigned MFRD – MF: Determined AGED – Aged components installed In the emission data vehicle	Light Duty	Confirmatory Test		Manufa turer	Front End	XML	LD-CFT-SI-BR019	SI&B19: If a Test Procedure Code Selected for EPAConfirmatory Testing (S-41.5) is equal to 22 or 27, then at least one Exeporative/Refueling Standard for the Test Procedure (S-88) is required.
SI-76	Additive DF	Enter the additive deterioriation factor (DF) value for this evaporative standard name.	SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails	AdditiveDeterior ationFactorValu e		11 for each unique set of evap tandard/DF info.	N(7.6) E	lecimal			7	6	0 9	3.999999		Light Duty	Confirmatory Test	Note- Evaporative DFs are only additive, not multiplicative.	Manufa	Front End	XML	LD-CFT-SI-BR019	BIBD19. If a Trait Procedum Code Selected for EPJI Confirmatory Testing (S-H 5) is equal to 27 or 27.4 m a literatione EnergonatesReturling Standard for the Test Procedure (S-98) is required.

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420d11003.xls SI+

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Mis Text Edit	Blue = Misc Certification Changes																	
EPA Data element number Carline In	Long Name	Description	Parent's Na	ame XML T	ag R	equired Multipli	Basic Data icity Type	c L Data Typ Descripti	on Lenat	h <u>Max</u> th Length	Pattern Dioits	Fractional Digits Min Value	Max Valu	e Allowed Values	Industry	Process	Notes/Questions	Originato	Collectio Delinit Delinit Delinit Delinit	C Applicable Business Rules	Validation Rules
	Process Code	Select the desired process code for the current submission	CarlineSub sion/Carline ormationDe	eInf	rocessCo	TRUE	A(1)	Enumerati	00 1	1				N = New dataset C = Correction of existing Verify	Light-Duty	Certification		Manufactu	Front Frd XM		
02.0.0			5			IIIUL		Endineral							Light Doty	Certification		manaratea			
																					CL-BR1: Manufacturer Code (CL-1) must exist in the system. CL-BR2: If Process Code (L-0.5) equals C' (Correction) or R' (Report), then a record must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR2: If Process Code (CL-5) equals Y (New), then a record must not exist in the system for that Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1).
																					Manufacturer Code (CL-1). CL-BR2: If the Process Code (CL-0.5) is equal to 'R' (Report), the Manufacturer Code of the Submission Autor Details must match the Manufacturer Code (CL-1) of the dataset for which the report was requested.
		The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be	CarlineSub sion/Carline	mis																LD-CERT-CL-BR001 LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR009	CL-BR10: If the Process Code (CL-0.5) is equal to 'N (New) or 'C' (correction) then the Manfacturer Code of the Submission Author Details must match the Manufacturer Code (CL- 1) of the submitted dataset. CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals
<u>CL-1</u>	Manufacturer Code	derived from user's CDX user account	ormationDe s	e e	turerCod	TRUE	A(3)	Fixed strin	g 3	3	[A-Z0-9]{3}				Light Duty	Certification		Manufactu	er End XM	LD-CERT-CL-BR010 LD-CERT-CL-BR012	N' (New) the Carline Code (CL-3), Manufacturer Code (CL-1), Division Code (CL-3) and Model Year (CL-2) must be unique. CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record
																					must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR4: If Process Code (CL-0.5) equals 'N' (New) then the Carline Code (CL-4) must
	Model Year	Enter the applicable model	CarlineSub sion/Carline ormationDe	eInf		TRUE							2100			Certification		Manufactu	Front er End XM	LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004 LD-CERT-CL-BR012	not exist in the system for that Manufacturer Code (CL-1) and Division Code (CL-3) and Model Year (CL-2). CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals N (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and
<u>CL-2</u>	Model Year	year for this test group.	s	ModelYear		TRUE	N(4)	Integer				1957	2100		Light Duty	Certification		Manufactu	er End XM	LD-CERT-CL-BR012	Model Year (CL-2) must be unique. CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record
																					must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR3: For any sumission, the Division Code (CL-3) must already exist in the system.
			CarlineSub	mis																LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-	CL-BR4: If Process Code (CL-0.5) equals 'N' (New) then the Carline Code (CL-4) must not exist in the system for that Manufacturer Code (CL-1) and Division Code (CL-3) and Model Year (CL-2).
<u>CL-3</u>	Division Code	Enter the applicable division for this carline.	sion/Carline ormationDe s		Division	TRUE	N(2)	Integer				1	99		Light Duty	Certification		Manufactu	Front End XM	CERT-CL-BR003 LD-CERT-CL-BR004 LD-CERT-CL-BR012	CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals N <sup>*</sup> (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and Model Year (CL-2) must be unique.
																					CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1).
																					CL-BR4: If Process Code (CL-0.5) equals 'N' (New), then a record must not exist in the system for that Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacture Code (CL-1). CL-BR11: If the Process Code (CL-0.5) is 'C' (correction) then there cannot be any locked
		Enter the applicable carline code (assigned by the manufacturer) for this	CarlineSub sion/Carline ormationDe	elnf itail															Front	LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004	and active Certificate Summary Information Reorts (CSIs) which reference this Carline Code (CL-4). CL-Br12: If this is a Batch Data set then for each Carline with Process Code (CL-0,5) equals N (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and
<u>CL-4</u>	Car Line Code	carline.	s	CarlineCode		TRUE	N(3)	Integer				1	999		Light Duty	Certification		Manufactu	er End XM	LD-CERT-CL-BR012	Model Year (CL-2) must be unique. NEW: If FE Label Carline Class Code is 2 (Minicompact Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a whole number must be less than 85.
																				NEW: LD-CERT-CL-BR013	must be less than 85. NEW: IF FE Label Carline Class Code is 3 (Subcompact Carl) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 65 and less than 100.
														1 = Two-Seaters 2 = Minicompact Cars 3 = Subcompact Cars 4 = Compact Cars 5 = Midiciae Cars						NEW: LD-CERT-CL-BR014	NEW: II F Label Carline Class Code is 4 (Compact Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 100 and less than 110.
														5 = Midsize Cars 6 = Large Cars 7 = Small Station Wagons 8 = Midsize Station Wagons 9 = Large Station Wagons 10 = Small Pickup Trucks 2WD						NEW: LD-CERT-CL-BR015	NEW: If FE Label Carline Class Code is 5 (Midsize Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 110 and less than 120.
														11 = Small Pickup Trucks 4WD 12 = Standard Pickup Trucks 2WD 13 = Standard Pickup Trucks 4WD						NEW: LD-CERT-CL-BR017	NEW: If FE Label Carline Class Code is 6 (Large Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 120.
														14 = Vans, Cargo Type 15 = Vans, Passenger Type 17 = Special Purpose Vehicle 2WD 18 = Special Purpose Vehicle 4WD 19 = Special Purpose Vehicle Cab						NEW: LD-CERT-CL-BR018	NEW: If FE Label Carline Class Code is 7 (Small Station Wagons) then the sum of Average Passenger Volume (CL-8) and Average Luggage Volume (CL-10) rounded to a whole number must be less than 130. NEW: IF EF Label Carline Class Code is 8 (Mildrine Station Wagons) than the sum of Average
		Enter the applicable class code for this carline using	sion/Carline	einf										Chassis 20 = Minivan 2WD 21 = Minivan 4WD 22 = SUV 2WD						NEW: LD-CERT-CL-BR019	NEW: If FE Label Carline Class Code is 8 (Midsize Station Wagons) then the sum of Average Passenger Volume (CL-8) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 13 and less than 16 d. NEW: If FE Label Carline Class Code is 9 (Large Station Wagons) then the sum of Average
CL-5	FE Label Carline Class Code	EPA's FE Label classifications.	ormationDe s	tail CarlineClass	Code	TRUE	N(2)	Enumerati	on					23 = SUV 4WD 24 = Electric Vehicles	Light Duty	Certification		Manufactu	Front er End XM		NEW: If FE Label Carline Class Code is 9 (Large Station Wagons) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 160.

EPA Data element number Long Nam Carline Information	e Description	Parent's Name	XML Tag	Required	Basi Dati Multiplicity Typ	c <u>Data Typ</u> Descriptio	<u>on Length L</u>	Max ength Patte	tern Digits	Tractional Digits N	Min Value I	Max Value	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collectio n Point	Collec tion Type	Applicable Business Rules	Validation Rules
CL-6 Full Carline Nar	Enter the full carline name for this carline.	8	FullCarlineName	TRUE	A(50	Normalized string	d 1	50						Light Duty	Certification		Manufacturer	Front	XML		
Average Passe CL-0 Volume	Enter the average	CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai	AveragePassengerVo lumeMeasure	FALSE	N(6.	)) Decimal			6	3	0	999.999			Certification		Manufacturer	Front End	XML		1-BRC (14s) Class Close (10-4) inclusiti 7 Minik Company), 37 (Matics Charmony, 147 (Company), 57 (Matics), 57 (Matics), 57 (Matics) Class Material Material Company, 17 (Matics Class Material Material Class Material Class Class 12 (Matics), 57 (Matics), 58 (Material), 58 (Material)
Average Luggg CL-10 Volume	e Enter the average luggage volume (in cubic feet).	CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVetail Is	AverageLuggageVolu meMeasure	FALSE	N(5.5	3) Decimal			5	3	0	99.999		Light Duty	Certification		Manufacturer	Front	XML	LD-CERT-CL-88005 NEW: LD-CERT-CL-88013 NEW: LD-CERT-CL-88014 NEW: LD-CERT-CL-88017 NEW: LD-CERT-CL-88017 NEW: LD-CERT-CL-88019 NEW: LD-CERT-CL-88019	CL-BHS: 11 THE CLBB COB (LCLS) equals 2 ( Mini Compiler), 3 ( GubCompact), 4 ( Compact), 5 ( Mickairo, 9 ( Karge), 7 ( Karall Station Wagon), 8 ( Mickize Station Wagon), ( Partage passenger Volume (LCL3) and Average Luggae Volume (LCL-10) processes Label Cartine Class Code is 2 (Mini Compact, 2 Mini Cart), 10 pre is es- table Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is NEW CL-BR014: IF E Label Cartine Class Code is 3 ( Subcompact Cart) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 10. NEW CL-BR014: IF E Label Cartine Class Code is 5 (Mickize Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 10. NEW CL-BR015: IF E Label Cartine Class Code is 10 (Mickize Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded o a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded o a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 120.
2-Door Passeng CL-11 volume	Enter the 2-door er passenger volume (in cubic feet).	CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai Is	TwoDoorPassengerV olumeMeasure	FALSE	N(3)	Integer					0	200		Light Duty	Certification		Manufacturer	Front End	XMI		
2-Door Luggag		CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai	TwoDoorLuggageVol umeMeasure	FALSE								60					Manufacturer	Front End	XMI	CL RRG	CL-BR6: II. Two-Door Passenger Volume. (CL-11) is entered then Two-Door Luggage Volume
CL-12 volume 4-Door Passeng CL-13 volume	Enter the 4-door	CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai	FourDoorPassengerV olumeMeasure	FALSE		Integer					0	200			Certification		Manufacturer	Front		UL BRO	
4-Door Luggag CL-14 volume	Enter the 4-door luggage volume (in cubic feet).	CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai Is	FourDoorLuggageVol umeMeasure	FALSE	N(2)	Integer					0	60		Light Duty	Certification		Manufacturer	Front End	XML	<del>CI BR7</del>	GL-BR?- If Four Door Passenger Volume (GL-13) is entered then Four Door Luggage— Volume (CL-14) is required,
Hatchback CL-15 Passenger volu	Enter the hatchback passenger volume (in ne cubic feet).	ls	HatchbackPassenger VolumeMeasure	FALSE	N(3)	Integer					0	200		Light Duty	Certification		Manufacturer	Front End	XML		
Hatchback Lug CL-16 volume	Enter the hatchback lage luggage volume (in cubic feet).	ls	HatchbackLuggage#V olumeMeasure	FALSE	N(2)	Integer					0	60		Light Duty	Certification		Manufacturer	Front End	XML	CI BR8	CH-BR8: H Hatchback Passanger Volume (CL-15 is entered then Hatchback Luggage- Volume (CL-16) is required).
Sales Restrictio	Select the applicable sales restriction code for this carline.	ormationDetail	SalesRestrictionCode	FALSE	A(2)	Enumeratio	on						TR=US Territories PO=US Postal Service	Light Duty	Certification		Manufacturer	Front End	XML		

Pink = TBD	Orange = Changes Due To New Technologies		Red = Misc Text Edits	Blue = Misc Certification																		
EPA Data Element Number	Long Name	Green = Label/CAFE/GHG Changes	Parent's Name	Changes XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Length	Max Length	Pattern	Total Fraction Digits al Digits	Min Max Value Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collect ion Point	Collect Ion Type Applicable Business	Rules	Validation Rules
	ve Family Information													N = New dataset								
EV-0.5	Process Code	Select the desired process code for the current submission.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails	Information Process Code	TRUE		A(1)	Enumeration	1	1				C = Correction of existing Verify dataset D = Delete existing Verify dataset R = Request Report for an existing Verify dataset	y Light- Duty	Certificati on		Manufacturer	Front End	XML		
EV-19	Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX water account	EvaporativeFamilySubmissio rr/EvaporativeFamilyInformati onDetails	EPAManufacturerC ode	TRUE	Once per evaporative family.	A(3)	String	3	3	[A-Z0-9](3)				Light 0 Duty 0	Certificati		Verify	Front End	LD-CERT-EV-BR LD-CERT-EV-BR LD-CERT-EV-BR XML LD-CERT-EV-BR	011	EV-BR2: If the Process Code (EV-0.5) is equal to 1% (Report), the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (EV-19) of the dataset for which the report was requested. EV-BR11: If the Process Code (EV-0.5) is equal to 1% (New) or IC (Correction) the Manufacturer Code of the Submission Author Code (EV-15) of the dataset of the Submission Author Code (EV-15) of the authoritied dataset. EV-BR12: Manufacturer Code (EV-19) must exist in the system.
EV-1	Evap/Refueling Family Name	Enter the applicable evaporativerfueling name for this dataset.	EvaporativeFanilySubmissio n/EvaporativeFanilyMormati onDetails	EvaporativeRefueli ngFamilyName	TRUE		A(12)	Fixed string	12	12	[A-HJ-NPR- TV-Y1- 9](1)[A-2D- 9](4](A-2D- 9](3)[3]				Light to Duty	Certificati		Manufacturer	Front End	LD-CERT-EV-BROOTa LL BROOTb LD-CERT-EV-BR LD-CERT-EV-BR XML LD-CERT-EV-BR	002 003	EV-BR1: If Process Code (EV-0.5) is equal to C' (Correction) or R' (Report) then a record must already exit in the system with Vear (EV-1.5). EV-BR2: The Manufacturer Code embedded in the Exaporative Returbing Family Name (EV-1) must match the Submitter's Manufacturer Code (in Submission Author Details). EV-RR3: The califiest evolving capacity embedded in the Evaporative Returbing Family Name (EV-1) must match the Submitter's Manufacturer Code (in Submission Author Details). EV-RR3: The Califiest evolving capacity embedded in the Evaporative Returbing Family Net/-1) must be a valid number. EV-RR3: Exaporative Returbing embedded in the Evaporative Returbing Family EV-1) must be a valid in EV-RR3: The Suporative Summary Information (EVSI) Type (EV-2) quals N (NeuroReturbing Family Name (EV-1) and Model Vear (EV-1.5). EV-RR3: If the Process Code (EV-0.5) is C' (Correction) then there cannot be any locked and active Centificate Summary Family Name (EV-1)
EV-1.5	Model Year	Enter the applicable model year for this evaporative family.	EvaporativeFamilySubmissio	ModelYear	TRUE	Once per evaporative family.	N(4)	Year type (1970-2100)					1957 2100			Certificati		Manufacturer	Front	LD-CERT-EV-BRG LD-CERT-EV-BRG XML LD-CERT-EV-BR	01b	EV-BR1: If Process Code (EV-0.5) is equal to C' (Correction) or R' (Report) then a record must already exist in the system with the came Evaporative/Retueling Tranty Name (EV-1) and Model Yaar (EV-15). EV-BR2: If Evaporative Summary Information (EVSI) Type (EV-2) equals N (New Ine a record must not exist in the system for this EvaporativeRetueling Family Name (EV-1) and Model Year (EV-15).
		Enter the applicable type for this set of certification information: New, Update for Correction, or Update for Running	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati	SummaryTypeldent										N= New, U= Update for correction	Light	Certificati			Front			
	Evaporative Summary Information (EVSI) Type	Change. Is the ORVR system for this evaporative/refueling family integrated	onDetails EvaporativeFamilySubmissio n/EvaporativeFamilyInformati	ifier IntegratedORVRInd	TRUE		A(1)	Enumeration						R= Update for Running change Y = Yes	Duty (	on Certificati		Manufacturer	End Front End	XML		refer to other industry rules for this field
EV-3 NEW: EV-3.5	Integrated ORVR	with the evaporative system?	onDetails Evaporative FamilySubmis sion/Evaporative FamilyMrf ormationDetails	Fuelidentifier	TRUE	1n per Evaporativ e Family	A(1)	Enumeration n						N = No G - Gasoline D - Diesel M - Methanol CNG - Compressed Natural Gas Liguifier Natural Gas HDG - Liguifier Natural Gas H - Hydrogen H - Hydrogen H - Hydrogen H - Hydrogen	Light- Duty	Certificat a ion	The 'HYD' value is not accepted for this dataset.	Manufacturer Manufacture r	Front end	XML NEW: LD-CERT-EV-BR014 EV-BR01 XML V4-BR11	LD-CERT-	NEW: One of the Fuel(s) (EV-3.5) selected must be "Gasoline" (G), "Methanol" (M), "Ethanol" (E), (LNG), or "Liquified Petroleum Gas" (LPG). "MAIs not a valid value for Fuel.1. It is only valid for Fuel 2.
NEW EV-3.6	Multiple Fuel Storage- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels stored separately or together?	EvaporativeFamilySubmis sion/EvaporativeFamilyInf ormationDetails	MultipleFuelStor ageMethodIdenti fier	FALSE	1 per test group	A(8)	Enumeratio n						S - Fuels Stored Separately T - Fuels Stored Together	Light- Duty	Certificat ion		Manufacture r	Front end	XML NEW: LD-CERT-EV-	BR015	NEW: If more than one fuel is selected for Fuel(s) (EV-3.5), then Multiple Fuel Storage- Separate or Together (EV-3.6) is required, otherwise it is not allowed.
<del>EV-4</del>	- Fuel-1	Enter the first fust-type for this- evaporative/refueling-family.	EvaporativeFamilySubmis sion/EvaporativeFamilyInf ermationDetails	<del>Fuel11dentifier</del>	TRUE		<del>A(3)</del>	<del>Enumeratio</del> P						C Caseline O Trisoti M Michanol E Sthorol CNO Compressed Natural Gas LPG Liquid Sparoleum Gas LPG Liquid Sparoleum Gas LPG Liquid Sparoleum Sa Status Compressione Na Not Applicable	Light 6 Duty	<del>Gertificat</del> <del>Ion</del>		Manufacture F	Front- End	DELETE		DELETE: EV-BR10-"NV-shauld not be lipited as one of the valid values for Fuel-1. It is only valid for Fuel-2.
€∀-5	Fuel-2	Enter the second fuel type for this- eveporative/returning family if- applicable-	EvaporativeFamily&ubmis sion/EvaporativeFamilyMif ormationDetails	Fuel2identifier	FALSE		<del>A(3)</del>	<del>Enumeratio</del> <del>R</del>						G Gaseline D Disesi M Michanoi E Sthanoi E Sthanoi Life Juguid Petroleum Gas Life Juguid Petroleum Gas H - Hydregen BE Battory Einstrie N- Mer Applicable	Light Duty	<del>Certificat</del> <del>Ion</del>		Manufaoture F	Front	SMAL		

EPA Data Element							Basic Data	Data Type	Min.	Max.		Total Fra Digits al I	action Mir	1. Max.						Collect Collect ion ion Point Type		
Number	Long Name ve Family Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Length	Length	Pattern	Digits al l	Digits Val	ue Value	Allowed Values	Industr	Process	Notes/Questions	Originator	Point Type	Applicable Business Rules	Validation Rules
	Bladder fuel tank?	Are the fuel tanks for this evaporative/refueling family equipped with a bladder?	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails	BladderTankIndicat	TRUE		A(1)	Enumeration							Y = Yes N = No	Light Duty	Certificati		Manufacturer	Front End XML		
EV-7	Fuel tank Material	Enter the applicable material for the fuel tank for this evaporative/refueling family Choose 'Other' if both metal and plastic are used, or, some other material or composite is used.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails		TRUE		A(2)	Enumeration							M = Metal P = Plastic OT = Other	Light Duty	Certificati on		Manufacturer	Front End XML		
	Fuel Tank Material description	Enter a description of the fuel tank.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails	FuelTankMaterialO therText	FALSE		A(100)	Normalized String	1	100						Light Duty	Certificati on		Manufacturer	Front End XML	LD-CERT-EV-BR006	EV-BR6: If Fuel Tank Material (EV-7) is equal to 'P' (Plastic) or 'OT' (Other) then Fuel Tank Material Description (EV-8) is required.
EV-9	Fill Pipe Seal Type	Enter the applicable type of fill pipe seal for this evaporative/refueling family.	onDetails/FuelTankDetails	FillPipeSealTypeId entifier	TRUE		A(1)	Enumeration							L = Liquid Seal M = Mechanical Seal	Light Duty	Certificati on		Manufacturer	Front End XML		
EV-10	Air Intake System Vapor Storage Device	Do vehicles in this evaporative/refueling family have an air intake system vapor storage device?	onDetails/VaporStorageDetai Is	AirIntakeSystemDe viceIndicator	TRUE		A(1)	Enumeration							Y = Yes N = No	Light Duty	Certificati on		Manufacturer	Front End XML		
	Air Intake System Vapor Storage Device Description	Describe the airtake system vaport storage device	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	i AirIntakeSystemDe viceDescriptionText	FALSE		A(100)	String	1	100						Light Duty	Certificati on		Manufacturer	Front End XML	LD-CERT-EV-BR007	EV-BR7: If Air Intake System Vapor Storage Device (EV10) is equal to "Y (Yes) then Air Intake System Vapor Storage Device Description (EV-10.5) is required.
EV-11	Fuel System Vapor Storage Canister	Do vehicles in this evaporative/refueling family have a fuel system vapor storage canister?		i VaporStorageCanis terIndicator	TRUE		A(1)	Enumeration							Y = Yes N = No	Light Duty	Certificati on		Manufacturer	Front End XML		
EV-12	Other Vapor Storage	Enter a description of other vapor storage devices for this evaporative/refueling family.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	i VaporStorageCanis terDescriptionText	FALSE		A(30)	Normalized String	1	30						Light Duty	Certificati on		Manufacturer	Front End XML		
	Fuel System Vapor Storage Canister(s) Tota Working Capacity	Enter the total working capacity (in grams) of all primary and secondary all (bleed) canisters for this evaporative/refueling family.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	CanisterTotalWorki i ngCapacityMeasur e	TRUE		N(4)	Integer						0 9999		Light Duty	Certificati on		Manufacturer	Front End XML		
EV-14	Number of Primary Canisters	Enter the number of primary canisters for this evaporative/refueling family.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	PrimaryCanisterCo unt	TRUE		N(1)	Integer						0 9		Light Duty	Certificati on		Manufacturer	Front End XML		
	Number of Bleed Canisters	Enter the number of bleed canisters for this evaporative/refueling family. Do not include bleed canisters that are internal to primary canisters.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	i BleedCanisterCoun t	TRUE		N(1)	Integer						0 9		Light Duty	Certificati on		Manufacturer	Front End XML		
	Bleed Canister Total Working Capacity	Enter the total working capacity of all bleed canisters (in grams).	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is	BleedCanisterTotal WorkingCapacityM easure	FALSE		N(4)	Integer						0 9999		Light Duty	Certificati on		Manufacturer	Front End XML	LD-CERT-EV-BR008	EV-BR8: If Number of Bleed Canisters (EV-15) is greater than '0' then Bleed Canister Total Working Capacity (EV-16) is required.
	Evap/refueling family system comment	Enter any additional coments about this evaporative/refueling family.	EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails	ManufacturerComm entText	FALSE		A(1000)	String	1	1000						Light Duty	Certificati on		Manufacturer	Front End XML		

Pink = TBD	Orange = Changes Du To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																		
EPA Data Element Number Test Group	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min. Le Length	lax ngt 3	otal. Fraction igits al Digits	Min Value	Max Value	Allowed Values	Industry	Process	NoseQuestions	Originato 2	Collecti on Point	Collectio n.Type	Applicable Business Rules	Validation Rules
		Select the desired process code for the current submission.	CertificationData Submission/Certi ficationInformati	Information Process	TRUE		A(1)	Enumeratio						N = New dataset C = Correction of existing Veify dataset	Light-Duty	Certification			Front			If Process Code = "R" or "D" or "C" , a record must exist in Verify for the primary key of this module.
16-0.5	Process Code		onDetails	Code	THUE		A(1)	n	1	,				C = Correction of existing Venty dataset	Light-Duty	Carbhoation		uner	End	XML		tor the primary key of this module.
TG-1	Manufacturer Code	The 3-character alphanumeric cod assigned by EPA t each manufacture This will be derived from user's CDX user account	r. CertificationData Submission/Certi ficationInformati onDetails	EPAManufacturerC ode	TRUE	Once per test group.	A(3)	String	3	[A-20- 3 9](3)					Light Duty	Cartification		Verity	Front End	XML	LD-CERT-TG-BR005 LD-CERT-TG-BR009 LD-CERT-TG-BR070 LD-CERT-TG-BR177	
										[A-HJ- NPR- TV-Y1- 9][1][A- Z0-											LD-CERT-TG-BR001a LD-CERT-TG-BR001b LD-CERT-TG-BR005 LD-CERT-TG-BR005 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004	
TG-2	Test Group	Enter the applicable test group name for thi set of certification information.	CertificationData s Submission/Certi ficationInformati onDetails	TestGroupName	TRUE	1-1	A(12)	String	12 1	NPR- TV-Y1- 9 (1) A- 20- 9 (4,11)  (0,) [A- 20- 9 (1,6))  2 ?					Light Duty	Certification		Manufact	Front	XML	LD-CERT-TG-BR006 LD-CERT-TG-BR079 LD-CERT-TG-BR084 LD-CERT-TG-BR101	Text group model year must be current year through current year + 2.
		Internation. Enter the applicable type for this set of certification information: New, Update for Correction, or Update for Running Change.	r CertificationData																			
TG-4	CSI Type	information: New, Update for Correction, or Update for Running Change.	Submission/Centi fication/nformati onDetails/TestGr oup/dentification Details	CertificateTypelde ntifier	TRUE	Once per test group.	A(1)	Enumeratio n						N = New U = Update For Correction R = Update For Running Change	Light Duty	Certification		Manufact	Front	XML	LD-CERT-TG-BR103	N implies this test group must not exist in Verily.
		Numming change. When the Update Indicator = R <sup>2</sup> , enter the running change number or document file name for the sunning change that was submitted to Veify's document system.	Our of Caralian Dava																			
	Running Change Reference Number	name for the running change that was submitted to Verify's	CertificationData Submission/Certi fication/nformati onDetails/TestGr oup/dentification	RunningChangeRe ferenceNumberTex		Once per test group.		Normalized										Manufact	Front			This field must be present when TG-4 is "R".
16-5	Keference Number		ContilicationDate		FALSE	Once per leat group.	A(100)	string	1 1	00					Light Duty	Carbhoation		uner	End	XML	LD-CERT-TG-BR003 LD-CERT-TG-BR001a LD-CERT-TG-BR001b LD-CERT-TG-BR002 LD-CERT-TG-BR004	
TG-6	Model Year	Enter the applicable model year for this test group.	Submission/Centi fication/nformati on/Details	ModelYear	TRUE	Once per test group.	N(4)	Year type (1970-2100)				1957	2100		Light Duty	Certification		Manufact uner	Front End	XML	LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR009 LD-CERT-TG-BR000	Model year must match Test group model year and evap fam model year.
		Enter the- applicable v shee for the drive- course for this- test group. Soles	ContilicationDas aSubmission/Co reficationInform ationDotaile/Too											<del>C - Combuston Engine</del>								
70-7	Drive Source	Ster fuel cell- cleatric vehicle.	CertificationData	DriveSourceldens fier	TRUE	<del>Crise per lest group.</del>	<del>4(I)</del>	Enumeratio P						E - Elocuie Motor <del>X - Nybrid</del>	Light Duty	Certification		Manufact uror	Front- End	x		
NEW		applicable value for the drive source for this test group. Selec 'E' for fuel cell	Submission/Ceni fication/nformati onDetails/TestGr oup/dentification Details/DriveSou	Driv eSourceIdenti				Enumeratio						C = Combustion Engine E = Electric Motor				Manufact	Front			
TG-7.1	Drive Source	electric vehicle.	rceDetails	fier	TRUE	12 per Test Group	A(1)	•						H <del>- Hjärid</del>	Light Duty	Certification		urer	End	XML	Add LD-CERT-TO-IB001	
		Are the vehicles	CertificationDat a Submis sion/Ce																			
NEW TG-7.2	Hybrid Indicator	hybrid electric vehicles (HEVs) as defined in 40 CFR 86.1803-01?	rtificationInform ationDetails/EP AGeneratedCert ificationDetails	HybridVehicleIndi cator	TRUE	1 per Test Group	A(1)	Enumeratio n						N - No Y - Yes	Light Duty	Certification		Verify	Back End	Assigned	Add LD-CERT-TG-BR105 Add LD-CERT-TG-BR162	If Drive Source = Combustion Engine and Electric Motor then Hybrid Indicator = Yes, otherwise it = No.
			CertificationData Submission/Certi fication/nformati											G - Guadaline D - Diversit M - Merkhanol E - Ethanol LNG - Liquide Natural Gas LPG - Liquide Natural Gas LPG - Liquide Natural Gas LPG - Liquide Natural Gas H - Hydrogen Et D - Hydrogen Et D - Nydrogen							Add LD-CERT-TG-BR007 Add LD-CERT-TG-BR158 Add LD-CERT-TG-BR159 Add LD-CERT-TG-BR160	If Drive Source = Combustion Engine, Fuel can not equal
NEW TG-7.3	Fuel(a)	Enter all applicable fuels for this test vehicle configuration.	onDetails/TestGr oupIdentification Details/DriveSou rceDetails/FueIId entifierDetails	Fuelldentifier	TRUE	1n per Drive Source per Test Group	AG)	Enumeratio						LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity HYD - Hydraulic	Light-Duty	Certification		Manufact	Front	XMI	Add LD-CERT-TG-BR160 Add LD-CERT-TG-B8002a Add LD-CERT-TG-BR106 Add LD-CERT-TG-BR107 VER115	If Drive Source = Electric Motor, Fuel must equal Electricity, Hydrogen, or Methanol.
														MFI = Multipoint/sequential fuel injection CMIX = CNG mixer unit GDI = <del>Caselins</del> -Spark Ignition Direct fuel injection GDPI = Spark Ignition direct & ported.								
		Enter the												Injection LMIX = LPG Mixer CRDI = Common Rail <u>Direct</u> Diesel Injection GFI = Gaseous Fuel Injection DDI = Direct Diesel Injection <u>(non-common</u>								Required if Drive Source (10-7.1) = 'C', otherwise not allowed.
NEW 10-7.4	Basic fuel metering system	applicable fuel metering system type for this test group.	CertificationDetat	PrimaryFuelMeteri ngSystemIdentifier	FALSE	Once per selected Fuel (10-7.3) per Driv e Source (10-7.1) per test group	A(4)	Enumeratio n						rail) IDI = Indirect Diesel Injection TBI = Throttle Body Injection OT = Other (contact EPA prior to use)	Light Duty	Certification		Manufact urer	Front End	XML	Add LD-CERT-TO-IB003 Add LD-CERT-TO-BR108	allowed. Required if <u>70:7 - X<sup>+</sup>or if 70:7 - 37 and 70:38 - 5M<sup>+</sup>or 5M<sup>+</sup>-</u> Optional if <u>70:38 - 50</u> .
		Does the fuel metering system employ lean burn strategy (e.g. to significantly	CertificationData Submission/Certi ficationInformati onDetails/TestOr oupIdentification			Once per selected Fuel																
NEW TG-7.4.1	Lean Burn Strategy Indicator	improve the fuel economy of the vehicle)?	Details/DriveSou rceDetails/FueIId entifierDetails	LeanBurnStrategy Indicator	FALSE	Once per selected Fuel (TG-7.3) per Drive Source (TG-7.1) per test group	A(1)	Enumeratio n						N=No Y=Yes	Light Duty	Certification					Add LD-CERT-TG-BR109	Not allowed if basic fuel metering system (TO-7.4) is CMIX, LMIX, CRDI, GFI, DOI or IDI otherwise required.

420d11003.xls TG+

EPA Data							Basin		May										Collecti		
Element Number	Long Name Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Deta Type	Data Type Description	Min Length	Pattern Di	tal Fraction gits al Digits	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Ducations	Diginato 1	Collectio Point Collectio Point n Type	Applicable Business Rules	Validation Rules
NEW ( 10-7.5 )	CREE Weighting Factor for DualMultipe Fuel Vehicles	Enter the CREE weighting factor bath has been approved by EPA downweight of the down apply has been down apply has been down apply apply which as for this sat group .	Gantification/Data Submission/Centi fication/Iomault on/Datails/TestGr out/stentification Datails/Gwenho use Gas/DificialT s	WeightFactorValu 9	FALSE	Once Per Tast Group Fiel (10-217.1) per tast group	t N(5,4)	) Decimal			5 4	0.0000			Light-Duty	Certification		fanufact rer	Front End XML	Add LD-CERTITO-IB005 Add LD-CERTITO-IB0015 Add LD-CERTITO-BR110 Add LD-CERTITO-BR1112 Add LD-CERTITO-BR1112	This field is required if more than one built is subcase for the fact drosp. Need to add Backless Plants for which hasts the weighting the second state of the second state of the second backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second of CEEE weighting factors must sum to 1.
NEW 1 T0-7.6	Multiple Fuel Storage- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels stored separately or together?	CertificationDeta Submission/Certi ficationInformati onDetails/TestGr oupIdentification Details	MultipleFuelStora geMethodidentifier	FALSE	1 per test group	A(8)	Enumeratio						5 - Fuels Stored Separately T- Fuels Stored Together	Light-Duty	Certification	u a	fanulact urer	Front end XML	Add LD-CERT-TO-BR113	Required if more than one had is selected for Fusity (FD-7-3) and If Drive Source (TD-7-1) equals Combustion Engine, otherwise not allowed.
NEW 0	Multiple Fust Combustion - Separate of Together	If multiple fuels are selected for Foat(s), are combusted separately or together?	CertificationData SubmissionCerti ficationInformati oupMentification Dehaits	MultipleFuelComb astionMathodidant ifer	FALSE	1 per Test Group	A(8)	Enumeratio						5 Fash Combused Separately 7 Fash Combused Separately	Light-Duty	Certification		fanulact urer	Frond XML	Add DCERTID BR114	P Drive Source (1977; ) extends 10; (Sandhactine Fogline) and 7 more team on Fund() (107–3) stretched is combanding (au- celestion <sup>14</sup> ; (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Digetine (107–7) is required. Otherwise, is in one observed.
NEW TG-7.8	Fuel Cell Indicator	Are vehicles within this test group equipped with a Fuel Cell?	CertificationData Submission/Certi ficationInformati onDetails/TestGr oupIdentification Details	FuelCellIndicator	FALSE	1 per Test Group	A(1)	Enumeratio						N - No Y - Yes	Light-Duty	Certification		fanufact urer	Front end XML	Add LD-CERT-TG-BR115	Required if Drive Source (TG-7.1) equals "E" (Electric Motor), otherwise optional
NEW 5 TG-7.9	Rechargable Energy Storage System Indicator	Are vehicles within this test group equipped with a rechargable energy storage system?	CertificationDat aSubmission/Ce rificationInform ationDetails/Tes tGroupIdentifica tionDetails	RechargeableEner gyStorageSystemI ndicator	FALSE	1 per Test Group	A(1)	Enumeratio n						N - No Y - Yes	Light-Duty	Certification		fanufact urer	Front end XML	Add LD-CERT-TG-BR116	Required if Drive Source (10-7.1) equals "E" (Electric Motor), otherwise optional.
NEW 0 TG-8.3	Off-board Charge Capable Indicator	Select "Yes" if vehicles within this test group are equipped with an electric motor that is capable of baing charged off- baing charged off- baing charged off- baing charged off- therwise select "No".	CertificationData Submission/Certi ficationInformati onDatails/TestGr oupidentification Datails	OfBoardChargeCa pabilityIndicator	FALSE	1 per Test Group	A(1)	Enumeratio						N - No V - Yes	Light-Duty	Certification Test Data	u.	fanulact urer	Front end XML	Add LD-CERT-TG-BR117	Required il Drive Source (TD-7.1) equals "E" (Electric Motor), othernite optimut.
10.17		Enter the- spylicities fuel for the tothermon	CertificationDat a Submission/Se a Submission/Se ation/Dataile/Tas ation/Dataile/Tas iden/Dataile/Tas	E-m)Habastifier	78115			Enumeratio						G Caselins Disest Based COC Carport COC Carport Natural Cas HW - Liquid Reference Cas H- Disect Restance Cas H- One Classifier Sections Cas H- One Classifier Sections	Links Duty	Contification		tenulect	Front:	Deletes LD-CERT-TG-BR014 Deletes LD-CERT-TG-BR014	Net there are the displayed as over all the solid values for-
		Enter the second- kel if the "yebite kel category" for dis tott group is- for fuel from the	CartificationDas oSubmissionPos relicationEnteriorem ationDosaliorTec			Create per recent group.		Formation 1						C.—Caseline D.—Street L.—Street L.—					5.005 PARC		
70-18 5	Fuel-3	er til 4001 Enter the applicatio vehisto kell category for	ilenDotaile CertificationDas aSubmissionCo reficationNom discretationNom tGroupIdonFice	Puel2Identifies	FALSE	Creace por teach-group.	4(4)	R.						NAL-Non-Applicable B-Climple-Tool Part Part Construction of and combusted Part Part Construction Part Construction P	Light Duty	Certification	Provide secure protocological and the second s		End XML	Delete LD-CERT-TG-BR058 Delete LD-CERT-TG-BR058 Delete LD-CERT-TG-BR059 Delete LD-CERT-TG-BR059 Delete LD-CERT-TG-BR059	angeler (, et and a sin a direct)
TG-9	Vehicle Fuel Category- Federal Clean Fuel Vehicle	Is this test group being certified to Federal Clean Fuel Vehicle emission standards?	tenDetaile CertificationData SubmissionCerti ficationInformati onDetailsTeatOr oupIdentification Details/FederalC leanFuelVehicle Details	eryteensilee. Clean Fuellindicator	TRUE	Once per test group.	A(1)	Enumeratio						NF-Mail Fuel (Key Han 3 Suite, TBD) Y = Yes N = No	Light Duty	Certification	permenen war war of the P. des right can set the set on a buildest rade. U	rer fanulact rer	Front End XML	LD-CERT-TG-BR011	The <b> - - - - - - - - -</b>
TG-10	Federal Clean Fuel Vehicle Standard	Enterthe applicable Clean Fuel Vehicle Standard for this test group.	CertificationData Bubmission/Certi ficationInformati onDetails/TextGr oupkdentification Details/FederalC IeanFuelVehicle Details	CleanFuelStandar didentifier	FALSE	Once per test group.	A(4)	Enumeratio n						LEV ULEV ZEV	Light Duty	Certification	Ma un	fanufact rer	Front End XML	LD-CERT-TG-BR012	Must be present if TG-9 = Y and must not be present if TG-9 = N.
F TG-11	Federal Clean Fuel Vehicle ILEV	Is this test group being certified to Federal Clean Fuel Vehicle ILEV emission standards?	Certification/Data Submission/Certi fication/Informati on/Details/TestOr oup/dentification Details/Federal/C JeanFuel/Vehicle	1	FALSE	Once per test group.	A(1)	Enumeratio n						Y = Yes N = No	Light Duty	Certification	Market and American A American American Ameri	fanulact rer	Front End XML	LD-CERT-TG-BR013	Must be present if TO 4 = Y and must not be present if TO 4 = N. Subhemous if TO-11 = Y then either TO-17 = OK2, LNG or LPG or TO 8 = EV or FC.

SEPA .....



XML Tag

EPA Deta Element

Number Test Grou Long Name rmation Basic Data Type Type Description Min Lengt

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EPA Deta Element

Number Test Grou

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Basic Data Data Type Type

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EPA Date Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Typ Descriptio	e Min n Lengt	Max Lengt h h Pat	<u>Total</u> Digits a	raction I Digits Min Valu	e Max	Value	Allowed Values	Industry Process	Norse/Questions 5	riginato r	Collecti on Point	Collectio n Type	Applicable Business Rules	Validation Rules
Test Group	Information		CertificationData Submission/Certi																			
		Does this engine configuration utilize variable valve timing	ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi	VariableValveTimi		Repeats for each engine		Enumerati	•						Y = Yes			anufact F	Front		LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR085	
TG-41	Variable Valve Timing	sechnology?	gutation Datails Certification Data	ngIndicator	FALSE	configuration (TG-36).	A(1)	n							N = No	Light Duty Certification	u	ir E	End	XML	Add LD-CERT-TO-BR119	Rule B applies.
TG-42	Variable Valve Timing System Description	Enter a description of the variable valve timing technology utilized on this engine configuration.	Submission/Centi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi outationDetails	Variable Valve Timi ndDescriptionText	FALSE	Repeats for each engine												anufact	Front		LD-CERT-TG-BR021 LD-CERT-TG-BR033 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119	Required If TG-41 = Y
16-42	System Description	confriguration.	gutationDetails CertificationData Submission/Certi	ngDescription I ext	FALSE	configuration (1G-36).	A(1000	) String	,	1000						Light Duty Certification	u	r t	End	XML	Add LD-CER1-1G-BR119	Required if 1G-41 = Y
TG-43	Variable Valve Lift?	Is this engine configuration equipped with a variable valve lift mechanism?	ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi	Variable ValveLiftin	FALSE	Repeats for each engine configuration (TG-36).	4/0	Enumerati	•						Y = Yes N = No	Links Date: Costification		anulact <sup>1</sup>	Front	Y.M.	LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119	Rule B applies.
1045		Entera description	CertificationData Submission/Certi	Citator .	TALUL	coningulation (10-00).	0(1)								n = nv	cigin buly constrained		<u> </u>	LING	AML.		nan Dappris.
TG-44	Variable Valve Lift System Description	of the variable valve lift mechanism utilized on this engine configuration.	ficationInformati onDetailsHybrid CombustionEngi neDescriptionDet ails/EngineConfi gurationDetails	Variable ValveLiftD escription Text	FALSE	Repeats for each engine configuration (TG-36).	A(1000	) String	1	1000						Light Duty Certification	N N N N N N N N N N N N N N N N N N N	anufact i er	Front	XML	LD-CERT-TG-BR021 LD-CERT-TG-BR034 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119	Required if TG-43 = Y
		Enter the number	CertificationData Submission/Certi																			
TG-45	Number of Inlet Valves Per Cylinder	of inter walves per cylinder for this engine configuration. Enter 0 if not applicable.	onDetails/Hybrid CombustionEngi neDescriptionDat ails/EngineConfi gutationDetails CertificationData	InletValvesPerCyli nderCount	FALSE	Repeats for each engine configuration (TG-38).	N(1)	Insiger				٥	4	9		Light Duty Certification		anufact i ar	Front End	XML	LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119	Rule B applies.
	Number of exhaust Valves Per Cylinder	Enter the number of exhaust valves per cylinder for this engine configuration. Enter 0 if not	Submission/Certi fication/Informati a onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi	ExhaugValvesPerC		Repeats for each engine												anufact	Front		LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119	Puis Provider
TG-46	varves Per Cylinder	applicable.	gutationDatails CertificationData Submission/Corri	ylinderCount	FALSE	configuration (TG-36).	N(1)	Integer				0	5	9		Light Duty Cartification		r E	End	XML	And LD-CENT-IG-BR119	Rule B applies.
TG-47	Air Aspiration Method	Enter the applicable air aspiration methods for this engine configuation.	ficationInformati onDetailsHybrid CombustionEngi neDescriptionDet ails/EngineConfi gurationDetails	AirAspirationMetho	FALSE	Repeats for each engine configuration (TG-36).	A(2)	Enumerati	•						NA=Naturally aspirated TC=Turbocharged SC=Supercharged TS=Turbocharged+Supercharged OT=Other	Light Duty Certification	N N N N N N N N N N N N N N N N N N N	anufact i er	Front	XML	LD-CERT-TG-BR021 LD-CERT-TG-BR030 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119	Rule A applies
		Enter the number of air aspiration devices for this	CertificationData Submission/Certi ficationInformati onDatails/Hybrid CombustionEngi neDescriptionDat																		LD-CERT-TG-BR021 LD-CERT-TG-BR073 LD-CERT-TG-BR075 LD-CERT-TG-BR076 Update LD-CERT-TG-BR085	
TG-48	Number of Air Aspiration Devices	engine configuration.	ails/EngineConfi gutationDatails	AirAspirationDevic eCount	FALSE	Repeats for each engine configuration (TG-36).	N(2)	Integer				0	9	10		Light Duty Certification	5.	inufact F	Front End	XML	Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 Add LD-CERT-TG-BR179	Rule A applies. Required if Air Aspiration Method (TG-47) NA:
TG-49	Air Aspiration Device Configuration	Enter the air aspiration device configuration for this engine configuration.	CertificationData Submission/Ceni ficationInformati onDetails/Hybrid CombustionEngi neDescriptionData ails/EngineConfi gurationDetails	AirAspirationConfig	FALSE	Repeats for each engine configuration (TG-38).	A(2)	Enumerati	0						N = Single P = Panalel S = Senter PS = Both (Panalel and Seried)	Light Duty Cartification		anulact F ar E	Front	XML	LD-CERT-TG-BR021 LD-CERT-TG-BR074 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119 Add LD-CERT-TG-BR179 Add LD-CERT-TG-BR179	Rule A applies.
	Air Aspiration Method if	Enter a description of the air aspitation method for this engine configuration if	CertificationData Submission/Certi ficationInformati n onDetails/Hybrid CombustionEngi neDescriptionDat aits/EngineConfi	LinksmissionMetho		Repeats for each engine															LD-CERT-TG-BR021 LD-CERT-TG-BR035 LD-CERT-TG-BR072	
TG-50	Air Aspiration Method if Other	configuration if "other" is selected.	gutationDetails CertificationData	AirAspitationMetho dOtherText	FALSE	Repeats for each engine configuration (TG-36).	A(30)	String	1	30						Light Duty Certification		anufact F er E	End	XML	Add LD-CERT-TG-BR119	Must be present if TG-47 = Other.
TG-51	Charge Air Cooler Type	Enter the applicable charge air cooler type for this engine configuration.	Submission/Centi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi gutationDetails	ChargeAirCoolerid entifier	FALSE	Repeats for each engine configuration (TG-36).	A(1)	Enumerati	0						A = Air L = Liquid N = NA	Light Duty Cartification		anufact f	Front End	XML	LD-CERT-TG-BR021 LD-CERT-TG-BR003 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119	Rula À applies.
	Engine Configuration	Enter any additional comments about this engine	CertificationData Submission/Certi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDat ails/EngineConfi	ManufacturerCom		Repeats for each engine configuration (TG-36).												anufact	Front		LD-CERT-TG-BR021 LD-CERT-TG-BR087	
TG-52	Comments Exhaust Emission Contro	configuration.	guration Datails	mentText	FALSE	configuration (TG-36).	A(1000	) String	1	1000						Light Duty Certification		а — В	End	XML	Add LD-CERT-TG-BR119	Data set is not allowed if TG-7 = 12'. Here to end is assumed.
			ExhaustEmissio													Caronadon						
	After Treatment Device St	Enter the total number of after	nControlSystem CertificationData Submission/Certi ficationInformati onDetails/Exhau sEmission/Contr olSystemDetails/													Light Duty Certification					Delete LD-CERT-TG-BR025a Delete LD-CERT-TG-BR025b LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	Required if Drive Source (10-7.1) equals "CE" (Combustion Engine) or If Hybrid Indicator (10-7.2) equals "yes" and Hybrid Type (10-24) equals 1541 (C Enginetizetric Motor) or "EH (IC Engine/Hydraulic), otherwise not allowed.
TG-53	Treatment Devices (ATDs)	treatment devices for this test group.		AftertreatmentDevi ceCount	FALSE	Once per test group.	N(2)	Integer			+	0	9	10		Light Duty Certification	h	anufact F er E	Front End	XML	Add LD-CERT-TG-BR128 Add LD-CERT-TG-BR181	Required # TO 7 = 'C' or if (TO 7 = 'F AND 'TO 36' = 'EM' or 'EM)
		Enter a description of the after treatment devices	CertificationData Submission/Certi ficationInformati onDetails/Exhau sEmissionsContr o1SystemDetails/ AftertreatmentDe	ManufacturerCom														anufact F	Front		LD-CERT-TG-BR036a LD-CERT-TG-BR036b	Required il TG-7 = 1℃ oril (TG-7 = 1+1 AND *TG-26* = 15M* or 15H). (Delete this business rule? Or was this rule already
TG-54	ATD Comments	for this test group.	vicesDetails	mentText	FALSE	Once per test group.	A(1000	) String	1	1000						Light Duty Certification		<i>a</i> E	End	XML	LD-CERT-TG-BR038c	deleted?)
TG-55	ATD Number	A number assigned by Verify to each after treatment device.	n/a CertificationData	AltertreatmentDevi ceNumber	FALSE	Repeats the same number of times as the Number of ATDs (TG-53)	I. N(2)	Integer				1		10		Light Duty Certification	v v	uity I	Front End	generate d	LD-CERT-TG-BR036b LD-CERT-TG-BR036c Add LD-CERT-TG-BR166	Required if TG-7 = 'C' or if (TG-7 = 'H' AND *TG-26' = 'EM' or 'EH').
TG-56	ATD Type	Enter the type of after treatment device for this ATD number.	Submission/Certi fication/informati onDetails/Exhau stEmissions/Contr olSystem/Details/ AftertreatmentDe vices/Details/After treatmentDevice Details	AftertreatmentDevi ceTypeldentifier	FALSE	Repeats the same number of times as the Number of ATDs (TG-53)	I. A(6)	Enumerati	ia.						TWG = Threa-way catalyst OC = Oxidation catalyst OC = Threa-way catalyst TWC+OC = Threa-way catalyst PWF= Diseal Particulate Filter SOR = Selective Catalystic Reduction NOXAD = NOX Adsorber OT = Other	Light Duty Certification		anufact (	Front	XML	Deless LD-CERT-T0-BR025a Deless LD-CERT-T0-BR025b LD-CERT-TG-BR036b LD-CERT-TG-BR036b Add LD-CERT-T0-BR036c Add LD-CERT-T0-BR166	Required if TG-7 = °C' or if (TG-7 = °F AND *TG-26" = °EM' or °EF1.

Basic. Data

Data Type Min Lengt

EPA Deta Element

Number Test Gro r Point

Test Group	Information															Trock a	NORM COMPONE					
		Enter the type of exhaust gas	CertificationData Submission/Certi ficationInformati																			
TG-69	EGR Type	recirculation device for this engine	CombustionEngi neDescriptionDet aits/EngineConfi	ExhaustGasRecircu	FALSE	Repeats for each engine configuration (TG-38).	A(4)	Enumeratio							VVTC = Variable Valve Timing Control EEGR = Electronio/Electric VEGR = Vacuum OT = Other	Light Duty Certification		Manufact	Front		LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
10-69	EGR type	configuration. Enter a description of the exhaust gas recirculation device for this region	CertificationData Submission/Certi ficationInformati	lationidentifier	PALSE	conliguiation (1G-36).	A(4)	8							01 = Unar	Light Duty Camindation		unar	Eng .	AML	ED-CERT-1 G-BRUSSE	
	Exhaust Gas Recirculation Description if Other	ecirculation device for this engine configuration if "other" is selected.	onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi	ExhaustGasRecircu		Receats for each engine												Manufact	Front		LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
TG-70	Description if Other	"other" is selected.	gurationDetails CertificationData Submission/Certi	ExhaustGasRecircu lationOtherText	FALSE	Repeats for each engine configuration (TG-36).	A(30)	String	1	30	-					Light Duty Certification		uner	Front End	XML	LD-CERT-TG-BR036c	
		Does this engine configuration have a closed-loop air iniartion astem?	Incationinformati onDetailsHybrid CombustionEngi neDescriptionDet	1																	LD-CERT-TG-BR036a	
TG-71	Closed Loop Air Injection System	a closed-loop air injection system?	ails/Engine/Confi gutation/Datails Certification/Data Submission/Certi	ClosedLoopAinhje ctionIndicator	FALSE	Repeats for each engine configuration (TG-38).	A(1)	Enumeratio n							Y = Yes N = No	Light Duty Certification		Manufact uner	Front End	XML	LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
		Enter the applicable type of air injection system	ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet												AIR = Secondary Air Injection						ID CEPT TO BRIDE	
TG-72	Air Injection Type	for this engine configuration.	ailsEngineConfi gurationDetails CertificationData	AirlnjectionIdentifi er	FALSE	Repeats for each engine configuration (TG-36).	A(4)	Enumeratio n							AIR = Secondary Air Injection PAIR = Putsed Secondary Air Injection NA =Not Applicable OT = Other	Light Duty Cartification		Manufact urer	Front End	XML	LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
		Enter a description of the air injection system for this	Submission/Certi ficationInformati onDetails/Hybrid CombustionEngi																			
TG-73	Air Injection if Other	engine configuration if "other" is selected.	neDescriptionDet ails/EngineConfi gutationDetails	AirlinjectionOtherT ext	FALSE	Repeats for each engine configuration (TG-36).	A(30)	String	1	30						Light Duty Certification		Manufact urer	Front End	XML	LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
		Enter the applicable type of direct ozone reduction (DOR)	CertificationDate																			
		device for this test group. If equipper with a DOR, must obtain prior EPA	Submission/Certi fication/Informati onDetails/Exhau stEmissionsContr																			
TG-74	Direct Ozone Reduction (DOR) Device	approval before requesting a certificate for this test group.	olSystemDetails/ OtherExhaustEm issionsControlDe viceDetails	DirectOzoneReduct ionDeviceIdentifier	FALSE	Once per test group.	A(2)	Enumeratio n							CR = Catalytic Radiator NE = Not Equipped OT = Other	Light Duty Certification		Manufact	Front End	XML	LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
			CertificationData Submission/Certi ficationInformati onDetails/Exhau																			
		Enter a description of the direct ozone reduction if other i	stEmissionsContr olSystemDetails/ OtherExhaustEm issionsControlDe	DirectOzoneReduct ionDeviceOtherTex														Manufact	Emer		LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
TG-75	DOR Device if Other	selected.	viceDetails CertificationData Submission/Certi	t	FALSE	Once per test group.	A(30)	String	1	30						Light Duty Certification		uner	Front End	XML	LD-CERT-TG-BR036c	
		Enter any additional comments about	ficationInformati onDetails/Exhau stEmissionsContr olSystemDetails/																			
TG-76	Emission Control Device Comments	the emission control devices for this test group.	ofSystemDetails OtherExhaustEm issionsControlDe viceDetails	ManulacturerCom mentText	FALSE	Once per test group.	A(1000)	) String	1 1	1000						Light Duty Certification		Manufact	Front End	XML	LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c	
																						The data set T0.77 to T0.101 is Required if T0.8 - 'HV' 'EV'
	Hybrid Electric Vehicle	1	ation Cartification Data													Light Duty Certification						The data set TG-77 to TG-101 is Required if TG-8 = 'HV', 'EV', or 'FC', else it is not allowed.
	Hybrid Electric Vehicle	Enter the	ation CertificationData Submission/Certi ficationInformati onDetails/Hybrid Electric/Jobidoc	RechargeableEner				Esumentio							B = Battery(s) C = Capacitor BC = Pantery and Capacitor M = Machine	Light Duty Certification		Magudart	Enner		Delete LD-CERT-TG-BR041 Update LD-CERT-TG-BR086	The data set 10-27 to 10-01 is Required if 10-8 = 14Y, "EV, or FC, elise it is not allowed. Required if Drive Source (T0-7.1) equals 'EW'(Electric Motor) or if Hybrid Indicator (T0-7.2) equals 'yes' or if Foul Calif Indicator (T0-7.8) equals 'yes', otherwise not allowed.
TG-77	Hybrid Electric Vehicle . Rechargeable Energy Storage System Device	Enter the applicable type of energy sorage device for this test group.	Cartification/Data Submission/Certi fication/Informati on/Details/Hybrid ElectricVehicleF uelCell/Details Cartification/Deta Submission/Certi	RechargeableEner gyStorageDeviceId entifier	FALSE	Once per test group.	A(2)	Enumeratio							B = Battery(s) C = Capacitor BC = Battery and Capacitor M = Mydrautie OT = Other	Light Duty Certification		Manufact urer	Front	XML		
TG-77	Hybrid Electric Vehicle . Rechargeable Energy Storage System <del>Device</del> Rechargeable Energy Storage Device if Other	Enter the applicable type of energy storage device for this test group.	ation CertificationData Submission/Certi ficationInformati enderteilseHybrid LectricVahioleF uelCellDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahioleF uelCellDetails	RechargeableEner gyStorageDeviceId entifier RechargeableEner gyStorageDeviceOt herText	FALSE	Once per seat group.	A(2)	Enumeratio n String	1	30					B = Basey(b) C = Capacitor to Capacitor H = Nyaation OT = Other	Light Dury Certification		Manufact uner Manufact uner	Frant End :	XML		Required if Drive Source (TG-7.1) equals 'EM' (Electric Motor) or if hybrid Indicator (TG-7.2) equals yes' or if Fuel Call Indicator (TG-7.8) equals 'yes', otherwise not allowed.
	Rechargeable Energy Storage System <del>Device</del> Rechargeable Energy	Enter the applicable type of energy storage device for this test group. Enter a description of the energy storage device for this test group if	Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCellDetails CertificationData Submission/Certi ficationInformati	gyStorageDeviceOt			A(2) A(30)	Enumetatio n String	4	30					B = Balany(n) B = Capacitor RC = Reservant Capacitor RC = Office Of = Office	Light Duty Certification		Manufact unar Manufact unar	Front	XML XML	Delete LD-CERT-TG-BR941 Update LD-CERT-TG-BR956 Add LD-CERT-TG-BR129	Angeled Folce Garrer (19-7) (September 197) 4 Hyper Houses, Chrone (19-7) (September 19-6) McGarrer (19-7) (September 19-6) (September 19-6) September 19-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self
TG-78	Rechargeable Energy Storage System-Dovise Rechargeable Energy Storage Device if Other	Enter the applicable type of energy storage device for this test group. Enter a description of the energy storage device for this test group if	Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF	gyStorageDeviceOt	FALSE	Once perseat group.		Enumeratio p String Enumeratio	1	30					LA = Lead Add NRMH = NMH U = Lithium fon	Light Duty Certification		Manufact unar Manufact	Front End 3	XML	Delete LD-CERT-TG-BR941 Update LD-CERT-TG-BR956 Add LD-CERT-TG-BR129	Required if Drive Source (TG-7.1) equals 'EM' (Electric Motor) or if hybrid Indicator (TG-7.2) equals yes' or if Fuel Call Indicator (TG-7.8) equals 'yes', otherwise not allowed.
	Rechargeable Energy Storage System <del>Device</del> Rechargeable Energy	Enter the applicable type of energy aborage device for this test group. Enter a description of the energy to crage device for this test group if "other" selected.	Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCeIIDetails Certification/Deta Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCeIIDetails/B	gyStorageDeviceOt	FALSE		A(2) A(30) A(4)	Enumenatio n Steing Enumenatio	1	30					LA = Lead Acid NMM = NMM	Light Duty Certification		Manufact unar Manufact unar Manufact unar	Front	XML XML	Dukes LDCERTTO-BR641 Update LDCERTTO-BR684 Add LDCERTTO-BR685 Add LDCERTTO-BR62 Update LDCERTTO-BR686 Add LDCERTTO-BR686	Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations
TG-78 TG-79	Rechargeable Energy Storage System-Device Rechargeable Energy Storage Device II Other Battery Type	Enter the applicable type of energy aproace device for this test group. Enter a descliption of the energy aroage devices for his test group if "other" elected. Enter the applicable type of battery for this test group.	Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF	gyStorageDeviceOt	FALSE	Once per tell group.		Enumenatio n String Enumenatio	1	30					LA = Lead Add NRMH = NMH U = Lithium fon	Light Duty Certification		Manufact uner Manufact uner Manufact	Front End 3	XML .	Detes LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94	Angeled Folce Garrer (19-7) (September 197) 4 Hyper Houses, Chrone (19-7) (September 19-6) McGarrer (19-7) (September 19-6) (September 19-6) September 19-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self
TG-78	Rechargeable Energy Storage System-Dovise Rechargeable Energy Storage Device if Other	Enter the applicable type of applicable type of applicable type of group. Enter a description of the entery assage device for rother electronic control electronic protection electronic assarcy for in last applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of the battery for the battery for all controls as a special type of the battery for all controls as the battery for all controls as the battery for all controls as the battery for all controls as the batter	Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF	gyStorageDeviceOt	FALSE	Once perseat group.		Enumenatio n Boling Enumenatio n Steing	1	30					LA = Lead Add NRMH = NMH U = Lithium fon	Light Duty Certification		Manufact uner Manufact uner Manufact uner	Front End 3	XML Control Co	Dukes LDCERTTO-BR641 Update LDCERTTO-BR684 Add LDCERTTO-BR685 Add LDCERTTO-BR62 Update LDCERTTO-BR686 Add LDCERTTO-BR686	Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations
TG-78 TG-79	Rechargeable Energy Storage System-Device Rechargeable Energy Storage Device II Other Battery Type	Enter the applicable type of applicable type of applicable type of group. Enter a description of the entery assage device for rother electronic control electronic protection electronic assarcy for in last applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of the battery for the battery for all controls as a special type of the battery for all controls as the battery for all controls as the battery for all controls as the battery for all controls as the batter	Submission/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details Submission/Centi fication/Internation/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details BatterySpecification/Data Butterission/Centi fication/Internation/Details Electric/vehicleF uel/Cell/Details atterySpecification/Data atterySpecification/Data interpecification/Data interpecification/Data interpecification/Data interpecification/Data	gyStorageDeviceOt	FALSE	Once per tell group.		Enumenatio n Enumenatio n Steing	1	30					LA = Lead Add NRMH = NMH U = Lithium fon	Light Duty Certification		Manufact uner Manufact uner Manufact	Front End Front End	XML SXML SXML SXML SXML SXML SXML SXML S	Control LOCATION AND A CONTROL	Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations
TG-78 TG-79	Rechargeable Energy Storage System-Device Rechargeable Energy Storage Device II Other Battery Type	Enter the sopicalities types of whomes for instances or the source of the source or the source of the source or the source of the source instance devices of the source of the source of the source of whomes whomes of the source	Submission/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details Submission/Centi fication/Internation/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details BatterySpecification/Data Butterission/Centi fication/Internation/Details Electric/vehicleF uel/Cell/Details atterySpecification/Data atterySpecification/Data interpecification/Data interpecification/Data interpecification/Data interpecification/Data	gyStorageDeviceOt	FALSE	Once per tell group.		Enumenation n Bating Enumenation n String	1	30			0	999	LA = Lead Add NRMH = NMH U = Lithium fon	Light Duty Certification		Manufact uner Manufact uner Manufact uner Manufact	Front End 3	XXXII	Detes LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94	Angenerated Daves Science (15: 7:1) equation, Tetr (Daves Science (15: 7:1) angenerated Daves Science (15: 7:1) Respired AT Daves Science (15: 7:1) Respired AT Daves (15: 7:1) Respired A
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Office of Transportation	and Air Quality
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EPA Date Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Min Description Length	Max. Lengt h Patterr	Total Fractio Digits al Digi	n Is Min Value	Max Value	Allowed Values	Industry	Process	Nonear Durations	Originato r Point	Collectio n Type	Applicable Business Rules	Validation Rules
Test Group Info	Si isi survertive/Refueling	elect the pplicable andard level for is evaporative andard.	CertificationData Submission.Certi ficationInformati ationEvaporative InformationDatai Ist <sup>®</sup> vaporative InformationDatai Ist <sup>®</sup> vaporativa Ist <sup>®</sup> vaporativa	EvaporativeEmissi onsStandardLevell dentifier	FALSE	Test Group + Evap Family + Evap Centification Region Cod + Centification flue Code + Evap Emission Standard Level + Foal + Test Procedure + Usahl Life + Emission Name dentifisa unique sat ce evap standard/DF info. 0.n	e 1 51 A(4)	Enumeratio					T1 - Fiedenial Tier 1 Evap T2 - Fiedenial Tier 2 Evap F2 - Fiedenial Lov-II Evap C2 - OL 125/41 Evap Evap Evap Evap Evap Evap Evap Evap Evap Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap (1.4	Light Duty	Certification	T1 previously safuld EMMA in CPEIS	Manufact Front uner End	XML		
T0.423 Fuel	5. 14 18 18	elect the pplicable fuel for is evaporative andard.	Certification/Data Submission/Certific ation/Information/Datails/Certific ationEvapotative Information/Datail IsEvaporativeE missions/Standar d/Datails	Fuelldentifier	FALSE	Test Group + Evap Family + Evap Carification Region Cod + Certification(truba Code + Evap Emission Standard Level + Fael + Test Procedure + Used) Life + Emission Name identifies a unique set evap standard/DF info. 0.n	A(3)	Enumeratio					Gasoline     Gasoline     Gasoline     Hoteland	Light Duty	Certification		Manufact Front unar End	XML	Add LD-CERT-T0-IB002d	
16-223.5 Teat 1	E iq Procedure e	nter the opticable test supports/ve mission and/add	CertificationData SubmisionCerti Tistatortiformati InformationData Taticapostavice Taticapostavice Taticapostavice Othanita	TeaPhocadumiden Ster	FALSE	Tas Gouge + Evip Family - Evip Castification Region Code - Castification Multi Bandard Lavie - Fall Bandard Lavie - Fall Lite - Emission Name - International Con- ternational Con- ternational Con- Co.n.	N/D)	Enumeratio						Light-Duty	Certification		Manufact Fiont untr end	XML	Duiss LD-CERT-70-88994	
TG-223.6 Usefu	S, aş or ul Life Mileage a;	elect the pplicable useful e mileage for this vaporative andard.	CertificationData Submission/Certi ficationInformati onDataila/Certific ationEvaporative InformationDatai Is/Evaporatives Is/Evaporatives dissiondStandar dDatails	Useful LifeMileagel dentilier	FALSE	Carffication Region Cod Family + Evap Family + Evap - Centification Region Cod + CentificationNuture Code + Evap Emission Standard Level + Ford + Test Procedure + Useful Life + Emission Name elevap standard/DF info. 0.n	le 1 01 N(3)	Enumeratio					4 = 4.000 miles 50 = 50.000 miles 100 = 100.000 miles 120 = 120.000 miles 130 = 150.000 miles	Light Duty	Certification		Manufact Front uner End	XML	LD-CERT-TG-BR095c	
TG-225 Name	Result/Emission th e st	elect the oplicable mission name for is evapoutive andard.	CartificationData Submisidon/Cartification/Cartific Tasciontiformatic InformationDatai InformationDatai InformationDatai	Teaßeuridendife	FALSE	Ted Group + Exip Family + Exip Centification Region Code - Centification Muta Code - Exip Emission Code - Exip Emission Test Poscedure + Usekit Like - Emission Name - Anno - Code - State - Code - Co	i	Enumaissio A					n (1)) (1)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2))	Light Duty	Certification	CREE and OpcCREE or not valid values have. Need to add's business rule that doesn't after CREE or OpcCREE to be unseend have a se standard or Gr.	Manufast Fiort utr End	XML	Add LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS	NEXP The following values for Test Result/Settation Name (10.525) are not valid. CREEF, Contract-Marine Data and Enstation. Next Next Segure Sector Next Sector Sector Sector Sector Sector Next Next Sector Sector Next Sector Sector Sector Sector Sector Next Next Sector Next Next Sector Sector Sector Sector Sector Next Next Sector Next Next Sector Sector Sector Sector Sector Next Next Next Next Next Next Next Next
Evap TG-228 Stanc	94 fisi co st th borative Emission dard Value	his is a system- enerated numeric ald based on onverting the text alue entered by the manufacturer or "Evaporative mission Standard alue (Text)" (TG- 26.5).	CertificationData Submission/Certi ficationInformati onDetails/EPAG enerasedCertific ationDetails	Evaporative Emissi onsStandardValue	FALSE	11 for each unique set of evap standard/DF info	t. N(7,4)	Decimal	([0- 9][1,3] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,3] 9][1,3] 9][1,3]	7 4	0.0000	999,9999		Light Duty	Certification	teen. The quark dual agont the entry of emails attribute to the user and may additionally which due to the entry of PAA is applicable standards. Your emails to addition to addition	Back Varity End	Assigned		
TG-226.5 Star	Finite second se	Inter the pplicable numeric alue for this vaporative andard name icluding any dditional digits nat are necessary or proper sunding.	CertificationData SubmissionCertific ationInformati onDatails/Certific ationEvaporative InformationDatai Ia/EvaporativeE missionsStandar dDatails CertificationData	EvapolativeEmissi ordStandardValue Text		11 for each unique set of evap standard/DF info		String									Manufact Front ver End	XML		
Ev ap Deter TG-222 Type	Si ap de borative by rioration Factor au	elect the pplicable eterioration factor pe for this vaporative anderd.	Submission/Certific ficationInformati onDetails/Certific ationEvaporative InformationDetai Is/EvaporativeE missionsStandar dDetails	DeteriorationFactor TypeIdentifier	FALSE	11 for each unique set of evap standard/OF info	t 5. A(4)	Enumeratio					MFRA = Mfr. Assigned EPAA = EPA Assigned MFRD = Mfr. Determined AGED = Aged components installed in the emission data vehicle	Light Duty	Certification		Manufact Front uner End	XML		
TG-227 Addit		nter the additive eterioristion ictor (DF) value or this evaporative anderd name.	CertificationData Submission/Certi ficationInformati onDatails/Certific ationEvaporative InformationDatai Is/EvaporativeE missionsStandar dDatails			11 for each unique set of evap standard/DF info		Decimal		7 6	0	9.999999		Light Duty	Certification		Manufact Front uner End			

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EPA Data Element Number	Long Name	Description	Parent's Name	XML Teg	Required	Multiplicity	Basic Data Type	Data Type Description	Min Length	Max engt h Pattern Dig	al Fraction its al Digits	Min Value	Max Value	Allowed Values	Industry	Process	NotedQuestions	Originato r	Collecti on Point	Collectio n Type	Applicable Business Rules	Velidation Rules
		Internet applicable supplicable stat and the second state proup lowsporative saminy combination. This is a unique numbe sagined by Varify bi identify this set of sati info and satistic. Character 1 is the Model Vaar the tat was celiginally run for, Characters 2 - 5 at the Mandacturer 1 cable. Character 1 2 are the satistic. Character 1 2 are the satistic. Character 1 2 are the satistic. Character the satistic. Charact	e CentificationDate Buchnission.Centi FicationAnomati - onDatalisCentific - andDatalisCentific - andDatalisCentifi	T eztřemberidentif er	1 TRUE	LA	A(12)	String	12	12					Light Duty	Certification		Manufact	Front End	XML	LD-CERT-TO BROKS LD-CERT-TO BROKS	Af provided teal numbers must exist in Yanty,
16-202.5	Echaust Test Number	applicable exhause any any any any applicable exhause mumbers for this is a unique number assigned by Verify to identif his act of test into and results. Characters 1 is the Model Year the hast was originally un for, Characters 2 - 5 are the Manufacturer code followed by a data Manufacturer code followed by a data for the sequential exhause the sequential ext number, if it begins with 3 its as any mumber, if is begins with 3 its as any any any applicable of the number is a	y c. Davisi i cation Data Submi saion. Cani ficationinformat o nDutalise Aua alf cationibarDat pila Netern Dutalise Netern Dutalise	TestNumberidentif er	TRUE	1.6	A(12)	String	12	12					Light Duty	Certification		Manufact	Front	XML	LD-CERT-TG-BR088 LD-CERT-TG-BR091	Al povidad kar numban mur axir in Verly.
NEW T0-216.7	OHO Exempt Status	Select the applicable greenhouse gas examption status for this fast group gar 40 CFR 86.1601-12. (i) SBA examption, (*) conditional examption,	oupIdentification Details	GreenhouseGasE xemptitatusIdenti iar	i FALSE	1 for each test group	A(J)	Enumeratio						NE = Not Exempt SBA - Social Scales & Administration CE = Conditional Exemption	Light Duty	Certification	The pull-drawn flat should be displayed in this order: MC, BBA, CE. This field and a distantial as which a Varia y ack values CREE and adjusted CREE and descenses and which the ScH Oungebra ME should be sho	Manufact urer	Front	XML	Add LD-CERTID-B004 Add LD-CERTID-B0172	
			CartificationData Submission/Certi ficationInformati onDetails/Suppl ementalFederal TestProcedureC	0										N. 16-2				Manufact				
	SFIP Compliance Indicator SFIP Composite CO Option		alculationDetails CertificationData Submission/Certi ficationInformati onDetails/Suppl ementalFederal TestProcedureC alculationDetails	or CompositeCOOptic	FALSE	1 for each test group	A(1)	n Enumeratio						Y = Yes N = No Y = Yés N = No	Light Duty	Certification		urer Manufact	End Front End	XML	Update LD-CERT-TG-BR061	
10-217	Official FTP seat number	Enter the Test Number of the official FTP tost for this test groups and optionally for CO-	Certification/Data Submission/Certi fication/formati oup/dentification Datait/sGaenho uss/GazOficialT estNumber/Datait s	FTPTestNumber	TRUE	Once per Test Group Fuel (10-217.1) per test	4(12)	String	12	12					Light Duty	Certification		Manufact	Florit	XML	LD-CERT-TG-BR057 Detris LD-CERT-TG-BR059 Update LD-CERT-TG-BR059 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Add LD-CERT-TG-BR050 Add LD-CERT-TG-BR050 Add LD-CERT-TG-BR050	A SETE Compliance indicates in TV-, down this field di- magnetic. VEX: All provided test methods must tails in Verify. NEX: The Tost S-Optic Category (Tx-5) of the sate entered in Optical IP Tost testimate (Tx-1) must equal TPTF . Were the setE of the testimate of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the registrate.
New: TG-217.1	Test Group Fuel	Select the applicable fuels for each test group	CertificationData Submission/Certi ficationInformati onDetails/TestGr oupidentification Details/Gssenho usaGasOfficialT exNumberDetail S	Fuelldentifier				Enumeratio						b - Olessi M - Merjanol E - Ethanol CNO - Compressed Natural Gas LNO - Liquifed Natural Gas LNO - Liquifer Deroleum Gas H - Hydrogen EL - Electrickty M Not regelective	Light Duty	Certification		Manufact	Front	XML	Add LD-CERT-TG-88052b Add LD-CERT-TG-88158 Add LD-CERT-TG-88159 LD-CERT-TG-88159	
TG-218	Official USOR Test Number (Jac SiTPi- compression - sales)	Enter the Test Number of the official USO6 test for this USO6 test must have split has fuel economy results. precident most for- balletCoNOmand- optionally de CO-	CertificationData Submission:Certi ficationInformati onDetailsTestGr oupdentification DatailsGisenbr useGa20ficial s	US06TestNamber	FALSE	Once per Test Group Fuel (10-217-1) per test group	4(12)	String	12	12					Light Duty	Certification		Manufact	Front End	XML	LD-CERT.TO-BR067 Defans LD-CERT.TO-BR069 Defans LD-CERT.TO-BR069 Update LD-CERT.TO-BR063 Update LD-CERT.TO-BR063 Add LD-CERT.TO-BR063 Add LD-CERT.TO-BR063	B BETR Complement indexem 14-17, que dia du fanis explorat. NEV Al provide las muniters must exist in Venfy. Vel VIII Neu Sec Schoogeny (1645) di ante estant in Oficial URS has interer (192-18) must estat VERSI Vel VIII Neu Sec Schoogen (1645) di ante estat in Original URS has interer (192-18) must estat VERSI Neum or 12 Bag 17 and 178 Bag 27. Neuto and pada basistas rules for when dis official tas muniters in regénes.
TG-219	Official SCO3 Test Number <del>dus SETP.</del> composite.cate.)	Enter the Test Number of the official SOO3 test for this test group procedure used for NMHC-NOs- and optionally for CO	CertificationData Submission/Certi ficationInformati onDetails/TestOr oup/dentification Details/Gisenho useGasOfficialT estNumberDetail \$	SC03TestNumber	FALSE	Once per Test Group Fuel (10-217.1) per test group	A(12)	String	12	12					Light Duty	Certification		Manufact	Front End	XML	Update LD-CERT10-BR682c Update LD-CERT10-BR683c Update LD-CERT10-BR683c Add LD-CERT10-BR146 Add LD-CERT10-BR147	8.6739. Compliance Indiversita 10.77, dan his faid lé- napital. Al provided last numbers must exist in Yarify. The Tast 5-Cycle Category (78-53) of the tast entered in Official 503 Tast Number (10-13) must equal 1503 <sup>15</sup> Nace's add business rules for when this official tast number is regarded.



r Point

Verify Light-Duty Data Requirements with Greenhouse Gas updates

Process

XML Tag

ong Name

EPA Data Element

Basic Data Data Type Type Description

Min Lengt

Max Value

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EPA Dete		Duratation	Description of	XML Tag	De avier d	March 1976	Basic Data	Data Type Description	Min Lengt	Tota	al Fraction	No. Makes		All sound Market	la da ma	0	No. Water and the second s	Origina	o <u>on</u> Point	Collectio n Type		
Number Test Group	Long Name o Information	Verify-calcalated	a Submission/Ce	<u>ANC Tag</u>	Required	arcopheny	Type	Description L	angin n	Panem Cigi	its a bigits i	win value	Max value	ADDING VIENS	industry	PIOCES	roles duration		Point	n type	Applicable Boartica Policy	Validation Polies
NEW T0-8.5	Verify-calculated Combined Test Group CREE Certification Leve (Per Test Group Fuel)	combined (city- 55% and highway- 45%) test group CREE certification level for each fuel with 120k DFs applicable to each emission name in at the separate official city and Verify-calcalated	reficationInform ationDetails/EP AGeneratedCert ificationDetails/ EPAGeneratedG reanhouseGasD etails/EPAGene ratedCombinedT estGroupCertific ationLevelDetail s aSubmission/Ce	CombinedTestOro upCarbonRelatedE xhaustEmissionC ertificationLevelN umber	FALSE	Once per Test Group Fuel (TG-217.1) per test group	N(4)	Inseger				0	2223		Light-Duty	Certification	See equations for Combined Test Group CREEGys CREE on the P1-CREE Cales tab. Next to add Test Group CREE to LD CB Report. This date element is supported in the future Release.	Verify	Back End	Assigned		
NEW TG-8.5.1	Verify-calculated Combined Test Group Opt-CREE Certification Level (Per Test Group Fuel)	combined (city- 55% and highway- 45%) test group CREE certification level for each fuel with 120k DFs applicable to each emission name in the separate official city and	rtificationInform ationDetails/EP AGeneratedCert ificationDetails/ EPAGeneratedG reenhouseGasD etails/EPAGene ratedCombinedT estGroupCertific ationLevelDetail 5	CombinedTestOro upOptionalCarbon RelatedExhaustE missionCertificati onLevelNumber	FALSE	Once per Test Group Fuel (TG-217.1) per test group	N(4)	Inseger				0	2223		Light-Duty	Certification	See equations for Combined Test Group CREEGys CREE on the P1-CREE Cales tab. Next to add Test Group CREE to LD CB Report. This date element is supported in the future Release.	Verify	Back End	Assigned		
NEW TG-8.6	Discrepancy between Verify and Manufacturer calculated Combined Tast Groop CREE (Per Test Groop Fuel)	The Verily- calculated discrepancy batween manufacturer and Verify-actuated combined test group CREE Cartification Level.	CertificationDat a Submission/Ce rtificationInform ationDetails/EP AGenerate/Certific ationDetails/ EP AGenerated Creathouse GasD reachouse GasD ratedCombinedT estOroupCertific ationLevelDetail s	Combine dTestGro upCarbonRelate dE xhaustEmissionC ertificationLev eDi screpancy(Numbe r	FALSE	1 per fael per Test Group	5 N(4)	Integer				0	9999		Light-Duty	Certification		Verify	Back End	Assigned		
NEW TG-8.6.1	Discrepancy between Verify and Manufacturer calculated Combined Test Group DurcREE (Per Test Group Feat) Exhaust Emission Cerri	The Verify- calculated discrepancy batween manufacturer and Verify-calculated combined test combined test combined test combined test carbification Level.	CertificationDat asbamission/Co rificationInform ationDetailszP EPAGeneratedCert ificationDetails/ EPAGeneratedCo etails/EPAGene ratedCombinedT est0roupCertific ationLevelDetail S	Combine dTestOro upOptionalCarbon Relate dE xhaustE missionCertificati onLeve Discrepan cylNumber	FALSE	2 per fuel per Test Group	2 N(4)	Integer				0	9399		Light-Duty	Certification		Verify	Back End	Assigned		
	Canadist Emission Cert	Verify will round																1				
<u>TG-212.9</u>	Rounded Emission Result	the unconded test souths for each CSI and number/emission name combination to the same number of digits as the corresponding emission standard plus ane digit. Each rounded result will then have the DF applied to calculate the official centification levels.	CentificationData Submission/Centi ficationInformati onDetailstEPAQ eneratedCentific ationDetailstEPA GeneratedExhau stEmissionCentifi Is	Rounded Emission ResultValue	TRUE	1 for each provided unrounded emission scalit (via teat unmber) fo which a corresponding emission standard is provided on the CSI.	r N(11,7)	Decimal		11	7	0	9999 3999999		Light Duty	Certification	Muir av ASTM suunding methodology	Veify	Back End	Assigned		
TG-213	Certification Level	Verify-calculated certification levels for all applicable Test Results/Emission Names	CertificationData Submission/Certi ficationInformati onDatails/EPAG eneratedCertific ation/Details/EPA GeneratedExhau stEmissionCertifi cationLevelDetai Is	CalculatedCettifica tionLevelValue	TRUE	1 for each calculated Rounded Emission Resul	t N(8,4)	Decimal		8	4	0	9999.9999 (note-one additional digit was added to the left of the decimal)		Light Duty	Certification	Verdly should calculate out levels	Veify	Back End	Assigned		
T6-213.5	Criteria Pollutard PasaFal Indicator Evap Emission Cent Las	Verify will compare the Calculated Can Laval with the consponding standard and will at the Pass/Fail the Calculated the Calculated Can Lavel is less than or equal to the standard, otherwise it will be a issued for any CSIs that contain a "CSIs that contain a "CSIs that contain a CSIs t	CertificationData Submission/Certi ficationItemati enonDetails/EPAG eneratedCertific ationDetails/EPA GeneratedExhau stEmissionCortific cationLaveIDetai Is	CentificationPassFa illndicator	TRUE	1 for each calculated Cert	t A(4)	Enumeratio						Paia - Cat Lavel -= Standard Yali - Cat Lavel - Standard	Light Duty	Certification	Varily util compare the Calculated Carl Land with the some position paradiate and with an the Paraffair location or SP-Bar if the Calculated Carl Land visit Internet are equal to the standard manualise in this lase study of the Calculated Carl Land visit and Carl and Calculate SP-Bar if and the determined for CREEOpcCREE.	r. Verity	Back End	Assigned		No unificates can be instead if a CD (the group hand) tentity and instead of the rest or a Particular Indextor of "Part"
10-228		Verify will round the unrounded test scalars for each CSI and name combination name combination name combination to the same number of digits as the corresponding emission standard plus one digit. Each rounded scalar with than have the DF applied to calculate the dificial centification levels.	CertificationData Submission/Certi ficationInformati onDetails/EPAG enerated/Certific ationDetails/EPAG denerated/Exhau stEmissionConfili CationLevelDetail is		TRUE	1 for each provided unrounded emission result (via late number) wich a consequenting emission standard is provided on the CS1.	r N(11,7)	Decimal			7		9000,0000000		Light Duty	Certification	Muz va ASTM suvding mehodology	Veify	Back	Assigned		
TG-229		Verify will calculate cert levels by applying the DF to each rounded emission result.	CertificationData Submission/Certi ficationInformati onDetails/EPAG eneratedCertific ationDetails/EPAG GeneratedExhau stEmissionCertifi cationLaveIDetai		TRUE	1 for each calculated Rounded Emission Resul	t N(8,4)			8	4	0	9999.9999 (note-one additional digit was added to the left of the decimal)				Verify should calculate cart levels.	Verity	Back End	Assigned		

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Test Group Informa	ation									-										
	L cc s s s s f f f f s s s s s f f s s s s	effy will compare a Calculated Car preseption preseption and/and and will dicator to "Pasa" the Calculated an or equal to a sandard, nor equal to the Calculated Buther the Calculated the Calculated Buther the Calculated the Calculated Buther the Calculated the Calculated Buther the Calculated Bu	tCertific ails/EPA anCertifi varDentifi a illndicator	TRUE ouplev ap fami	1 for each calculated Ce Lovel by combination (includes		Enumeratio n	r for each r	required test cate	ogry.			Path - Car Loval - P Standard Fail - Car Loval - S Standard	Light Duty		Yeahy will compare the Catachand Cast Level with the corresponding standard and will set the prevenue to will see to "Fait". A candidate will not be taken for any Cast the contents of Year.	Veify	Back End	Assigned	te conficues con la linear 14 e CB par grap (vag facili) embinates har even en er Parel <sup>2</sup> el Indexier el "Par"
TG-203 Test Cate	an fil by 17 22 23 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	his field will stormatically be led based on the st procedure (in ceta* section) sociated with the st number. Certificat Submissi valid seat number (Ecasion) required for set test set t	de marcel	TRUE	1 per test procedure	A(6)	Enumeratio						FTP = Foldersi Tel Pocodore 1056 = 0056 8053 = 8053 EVA = Eugonative EVA = Eugonative COLO = - cuel CO SAPT = 5 princial: NOME = No. CO: Non-Tel Non- UBBINO = Ubbin Range MONDE = No. CO: Non-Tel Non- COLE = AC Lish Set CO: - County During	Light Duty		The label all automatically as little based or the same procedure (in "Tast" action) associated with the same transmission of the same transmissio	feify	Back End	Pre- existing Data	
Carline M TG-300 code	E aj m Manulacturer g	Cartificat Bubmissi popicable cartie anufacturer alion: You das that will be informati unified for this test ls/Cantific top. sDatails	aCentific potative onDetai idModel EPAManufacturer	; TRUE	1 for each unique cobination of carline m code, division code, carline code, carl segior code, transmission tockup indicator, transmission lockup indicator, transmission ceseper gear indicator, transmission gear count drive system identifier	r - Α(3)	Fixed string		(A-20- 9)(3)					Light Duty		CadinaMir Code + Model Year + Division Code + Cadine Code Identify a unique cadine. The cadine mit code canvail be different than the mit code in TG-1 (Parent = Ted Geop Identification Divisit).	Aanufact urer	Front	XML	The specific protocol is different two the direction of the matching of the specific protocol is different two the direction of the address of the specific protocol is a specific protocol of the LDCETTTO BROAT protocol is directed of the specific protocol of the LDCETTTO BROAT protocol is directed of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the from the Protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the sp
TG-301 Division	E cc a code M	Cartifican Submissi Inter the division fication/r de for each infine for this test ationEve oup. Division is Informati so incom as Is/Cartifi ale. 420tatili	formati	TRUE	1 for each unique cobination of carline mt code, division code, carline code, cart region code, transmission type transmission lockop indicator, transmission creaper gear indicator, transmission gear count drive system identifier	n	Integer				0	99		Light Duty	Certification	Califies MM Code + Model Year + Division Code + Califies Code steelify a unique califie.	Aanufact urer	Front	XML	LDCERT/10 BROND
TG-302 Carline c	E aj	Cantificat Bubmissi onDotatili ationE va pplicable carfine Informati des for this seat stocentri source	on/Certi Iformati a/Certific posative on/Detai	TRUE	1 for each unique cobination of carline m code, division code, carline code, carl segior code, transmission ype transmission lockup indicator, transmission cresper gear indicator, transmission gear count drive system identifier	r	Interner					000		Light Duty			Aanufact	Front	XMI	LDCETTORROW
	ation Region	Certifical Submissi elect all fication pplicable on Dotail artification region das for each Informati totred cartine IsConfik de. Stotalis	ionData on/Centi formati Qentific potative onDatai (Model ( Centification Recise	TRUE	1 for each unique cobination of carline ml code, division code, carline code, carl regior code, transmission year transmission lockup indicator, transmission creaper gear indicator, transmission gear count drive system identifier	r 1	Enumenatio				0		CA = California + CAA Section 177 states FA = Federal	angun anny			Anufact	Front	XML	
	E	Costilion	ionData on/Certi formai Zértific potative onDatai LightDutyTransmi	6	1 for each unique cobination of carline m code, division code, carline code, cart segio code, transmission type transmission lockup indicator, transmission creeper gear indicator, transmission gear count drive system identifier		Enumeratio						A = Automatic All = Automatic All = Automatic Manual M = Manual SA = Seni-Automatic CVT = Continuously Variable CVT = Solution Continuously Variable (e., CVT with paddice) OT = Other	Light Duty	Centification		Anufact urer	Front	XML	
Transmis	E	Certificat Submissi ficationin onDatail the transmission informati pe if "other" Is/Centific	ionData on/Cetti /formati //Cettific potative onDatai LightDutyTransmi	6	1 for each unique cobination of carline ml code, division code, carline code, car regior code, transmission hype tansmission lockup indicator, transmission creeper gear indicator, transmission gear count	r	n Normalized						U = Omer				Anufact	Front	XML	LDCETTTOBREE #T0.07 - One the T0.301 seques.
	D Ission Lockup	cartificat Submissi pe have a ansensision torque protocological setters construction per la construction per la construction p	ionData on/Ceni Iformati WCentific Dotati onDatai dModal TransmissionLocks	TRUE	drive system identifier 1 for each unique code, division code, code, division code, code, transmission type transmission lockep indicator, transmission creeper gear indicator, transmission lockep indicator, transmission creeper gear indicator, drive system identifier		atring Enumeratio						V = Yas N= No	Light Duty	Certification	, ,	Anufact	End Front End	XML	LDCERTTG 38968 # TG 307 + Oliver then TG 308 is required.
Teassmi	D		ionData on/Cetti iformati VCettific	TRUE	drive system identifier 1 for each unique code, division code, carline code, cart regior code, transmission type transmission lockup indicator, transmission creeper gear indicator, transmission gear count drive system identifier	A(1)	Enumeratio						N = No Y = Yaa N = No	Light Duty	Certification		uner Aanufact uner	Front	XML	
Total Ner	E mber of th	Cartifica	ionData on/Ceni iformati iformati porative onDatai	TRUE	drive system identifier 1 for each unique cobination of carline mi code, division code, carline code, carl segior code, transmission type transmission lockup indicator, transmission creaper gear indicator, transmission gear count drive system identifier	r	Integer				1	99		Light Duty	Certification		Anufact urer		XML XML	LDCETTTGBROK

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Originato on Collection r Point n Type

EPA Data Element Number Test Grou	Long Name p Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic. Data Typ Type Description	re <u>Min Le</u>	<u>fax</u> engt h Pattern Digit	Fraction al Digits Min V	alue Max Value	Allowed Values	Industry	Process	NeterOurstions	Originato F	Collecti on Point	Collectio n Type	Applicable Business Rules	Validation Rules
TG-312		Enter the applicable drive system for this	CertificationData Submission/Certi ficationInformati onDatails/Certific ationEvaporative InformationDatai Is/CertifiedModal Is/Datails	TezDriveCode		1 for each unique obtination of carline mfr code, division code, carline code, carl region code, transmission type, tansmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	Enumeral A(1) n	io				4 = 4-sheal Drive F = 2-sheal Drive, front P = Parts time 4-sheal drive A = All sheal drive	Light Duty	Certification		Manufact		XML		

												- <u>n</u>	_	-						
Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																	
EPA Data Bement. Number Long Name Fuel Economy Label Information	Description	Parent's Name	XMLTag	Required	Multiplicity	Basic Data Type	Data Type Descript Min. ion Lengt	Max. h Length P	Pattern Digits	Fraction al Digits Min Valu	2 <u>Max Value</u>	Allowed Values	Industry	Process	Notes/Questions	Originator	<u>Collecti</u> on Point	Collecti on Type	Applicable Business Rules	English validation rules.
GL-0.5 Process Code	Select the desired process code for the current submission	FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails efined as "a unique combinati	InformationProcessCode	TRUE	1 per FE Label	A(1)	Enumer ation					N – New dataset C – Correction of an existing Verify dataset	Light Duty	FE Label		Mr	Front End	XML		lf process code-R, D or C a record must exist in Verify for the primary key of this module.
Boot type mornation (r.e.	Enter the Manufacture r-assigned index number for this model type. It is used as a link to the data set that is associated with the label of this	FuelEconomyLabelSubmissi nFuelEconomyLabelSubmissi		TRUE	1 per FE Label						999			FE Label		Mr	Front End	24	LD #E-0_8001a LD FE-0_8001a LD FE-0_80002	Nedel Type Inder + MF Code + Medal Your must not exist for process code (GL 0.5) = 10. orderaries must exist for other process codes.
GL-2 Monufacturer Code	The three character code assigned by EPA to each manufacture r. This will be derived from users' CDX account.	n+uelicconomyLabelSubmissio FuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio		TRUE	1 per FE Label	N(3)	String 3	3	[A-20 - 9](3)	1	393		Light Duty			Verify	Front End	XML	LD FEGL 88002 LD FEGL 88001s LD FEGL 880012 LD FEGL 88042 LD FEGL 88043 LD FEGL 88043 LD FEGL 88044	onemes, must each or one process codes.
GL-176 Release Date	Enter the date this model type information can be released to the public. Enter the	FuelEconomyLabelSubmissio		TRUE			Date (YYYYM MDD)	2 9 1	[1- 2](1)(0- 2](3)(0- 1)(1)(0- 2](1)(1)(0- 2](1)(1)(0- 2](1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(							Manufactur er	Front End	XML	CR-BR11 CR-BR12 New LD-FE-GL-BR097	K this field is not having moved in Testgroup lefe, then it's required when process- ender (01-65) = 11, 07, or 11, New The Reinsen Date (10, 170) cannot be before January 2nd of the year prior to Model Year (10,-3) or after December 31st of the Model Year (10,-3).
GL-3 Model Year	applicable Model Year for this FE Label.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails	ModelYear	TRUE	1 per FE Label	N(4)	Year 4	4		1957	2100		Light Duty	FE Label		Mir	Front End	XML	LD-FE-GL-BR001a LD-FE-GL-BR001b LD-FE-GL-BR002 LD-FE-GL-BR004	Model Type Index + Mr Code + Model Year must not exist for process code=N, otherwise, must exist for other process codes.
Manufacturer FE Label GL-4 Comments	Enter any additional comments regarding the FE Labe for this Model Type.	FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails/l anufacturerSubmissionDetail	fuelEconomyLabelComme	FALSE	1 per FE Label	A(1000)	String 1	1000					Light Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR005	Optional for Process Code+N and R, required for Process Code+C and D.
GL-6 Date Submitted	A system- generated field indicating the date that this set of label information	FuelEconomyLabelSubmissis nFuelEconomyLabelDetailsA anufacturerSubmissionDetails		TRUE	1 per FE Label	D(8)	Date						Light Duty			Verify		Assigne		
Sind School State	ita- manufacture r- apresentati ve that should be- contacted ii (FA has- questions- regending- label label scontacte- name email addrese- and phone- number will be looked- up from the contact- entered by- manufacture information- previously- entered by- the-	Feel Fanomy, data Oberina Af Lea Fanomy, data Oberina Andrea Fanomy, data Oberina Andrea Mandrea Schultz	e CoulombianeTest	TRUE	1.par.fili.abai	450)	String	50					Light Duty	FE Labol.	Messily all potential spritects all. New see in the antitect previous line and the state of the state of the state where he that he house - format datases and phases them do Bankoo datase than the corresponding datases than the	žás	Front- End			

EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Descript ion L	Min M	ath Patte	<u>Total</u> n Digits	Fraction al Digits M	in Value	<u>Max Value</u>	Allowed Values	Industr	e Process	Notes/Questions	<u>Collec</u> Originator on Poi	cti <u>Collecti</u> int on Type	Applicable Business Rules	English validation rules
Fuel Econom	y Label Information	address of the- menufacture F-																				
		representati ve that- should be- contacted if- EDA har-																				
		representati ve that arheuld be- contacted if. EPA has equestions- regarding- this set of label information. The- contactis- email address will																				
		The- contact's- email- address will- be looked-																				
		up from the contact- information- previously- entered by																Ideally, all potential contacts will-				
	Manufacturer Fuel Economy-	entered by the manufacture r in the Manufacture r Information	FuelEconomyLabelSubmissio vFuelEconomyLabelDetailsM anufacturerSubmissionDetails		TRUE												ty FELabel	Mr info so that the user could choose it from a pull down of all- users for that mfs code. Email address and phone number would then be derived from the	5- Front Verify End	4- 		
GL4	Label Contact Email Address	module of number of the- manufacture F-	IndividualContactDetails C	contactEmailAddressText	TRUE	1 per FE Label	A(100)	String								Light Du	ty FE Label	corresponding chosen name.	Verify End	, xur		
		representati ve that should be contacted if EPA has																				
		EPA has questions regarding this set of fuel economy label information The contact's																				
		information. The- contact's- phone. pumber will.																				
		be looked- up from the- contact- information- previously-																Ideally, all potential contacts will- have user info entered previously in Mr. Info so that the user could	-			
6L9	Label Contact Phone Number-	entered by- the- manufacture r in the- Manufacture	FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsAt anufacturerSubmissionDetails IndividualContactDetails		TRUE	<del>1 per FE Labei</del>	<del>A(25)</del>	String	2	5						Light Dr.	ty FE Label-	choose it from a pull down of all- users for that mfr code. Email address and phone number would then be derived from the corresponding chosen name.	± Front Verify End	4. * ****-		
		E e text de s	lodel Yr + Carline Manufacturer (	Code + Division Code + Car	rline Code")																	
		carline manufacture r code for this FE Label. The unique combination of model																				
		year, carline																				Must be a valid manufacturer code. If the specified manufacturer code is different than the affected of the submitter? ("DV user account must used that the submitter?" info
GL-10	Carline Manufacturer Code	carline code must exist in a certified test group.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/C arlineDetails E	PAManufacturerCode	TRUE	1 per FE Label	A(3)	String	3 3	[A-Z0 9](3						Light Du	ty FE Label		Front Mfr End	it I XML	LD-FE-GL-BR003 LD-FE-GL-BR004 LD-FE-GL-BR045 New LD-FE-GL-BR098	the min code of the submitters' CDX user account, must wrify that the submitter' min code is one of the alternate min codes for the specified min code in min into. The unique combination of model year, certifying manufacturer code, division code and carline code must exist in a previously certified test group.
		Enter the division code for this FE Label.																				
		The unique combination of model year, carline manufacture																				
		r code, division code and carline code must exist in	FuelEconomyLabelSubmissio nFuelEconomyLabelDetails/C																		LD-FE-GL-BR004 LD-FE-GL-BR046	The unique combination of model year, carline manufacturer code, division code and
GL-11	Division Code	Enter the	n/FuelEconomyLabelDetails/C arlineDetails M	fanufacturerDivisionCode	TRUE	1 per FE Label	N(2)	Integer	1 3				1	99		Light Du	ty FE Label		Front Mfr End	it XML	LD-FE-GL-BR098 New LD-FE-GL-BR098	The unique combination of model year, carline manufacturer code, division code and carline code must exist in a previously certified test group.
		carline code for this FE Label. The unique combination of model year, carline																				
		year, carline manufacture r code, division code and carline code																				The unique combination of model year, carline manufacturer code, division code and carline code must exist in a previously certified test group.
GL-12			FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/C arlineDetails	CarlineCode	TRUE	1 per FE Label	N(3)	Integer	1 :				1	999		Light D	ty FE Label		Mr End	t XML	LD-FE-GL-BR004 LD-FE-GL-BR047 New LD-FE-GL-BR098	NEW: The combination of Carline Manufacturer Code (GL-10), Division Code (GL-11), and CarlineCode (GL-12) must exist at least once in the repeated subconfiguration sales information (GL-125.6, GL-125.6, and GL-125.7).



EPA Data Element Number Fuel Econor	Long Name Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Descript ion La	Min. M. ength Len	ax. hgth. Patter	n Digits	Fraction al Digits N	din Value Max Valu	JE.	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti on Point	Collecti on Type	Applicable Business Rules	English velidation rules
GL-21	Engine Block Arrangement Engine Block Arrangem		EngineBlockArrangementOt herText	FALSE	1 per FE Label	A(500)	String	1 50	20						Light Duty	FE Label	GL-16 finough GL-65 has been previously vertend in Certification table. It can be devided from the Verty based from the CR-13.0, TG-31 GL-16 hnough GL-65 has been previously vertend in Certification table. It can be devide from the Verty based from the Verty based and va the Test Group (CR-13.0).	Verify		Pre- Existing Data Pre- Existing Data		Previously addated in test group into.
GL-22	Label.		CylindersOrRotorsCount	FALSE	1 per FE Label	N(2)	Integer					0 20			Light Duty	FE Label	TG-32	Verify	End	Data		Previously validated in test group info.
NEW GL-22.1	Camless Valvetrali Indicator			TRUE	Once per test group.	A(3)	Enumer							4- No /= Yos	Light Duty	ÆLabel	16-32.5	Verify	Back I End	Pre- Existing Data		
NEW	Enter ci Viscury di classificati n recommence (c.g. 1000g frambier frambier sympto- targines promo (c.g. gwz) of 4, gwz)	1		7015		4/25)	String										10-22	Varific	Back	Pre- Existing Data		
Delete:	Enter the applicable last metering ignition Basic Basic Use ful Basic Label		PrimaryFuelMeteringSyste	FALSE	Loer FELsbei	A(4)	Enumer						4 0 4 4 H H H	ATL = Multipoint/sequential fuel injection MMX = CM2 minor unit 251 - decellers Extra Linjection AMX = Enc. Manner Rall Disest injection GRI = Common Rall Disest injection GRI = Common California California (California) California (California) The California (California) The California (California) The California (California) The California (California) California (California) The California (California) Atlantia (Cali	Light Duty	Rélabol	CL-16 through CL-65 has been previously entered in Cortification data Ican be derived from the Verify-back end via the Teet Group (GL-13-5); TG-13	Verify	Back- I	Pre- Existing. Data		Presente address in test area info
Delete: GL-24	Enter the speciable escond have escond hav		SecondaryFusiMeteringSy stemidentifier	FALSE	1-per Félabol	A(4)	Enumer							AR — Multipoint/Leopantial fusi injection MMX — CNG mices unit CH — Gasolina Direct fusi injection MMX - LPG Mice SRD = Common Rail Direct injection CH = Direct Direct injection CH = Direct Direct injection CH = Direct Direct Reports CH = Threat Brady Injection CH = Threat Brady Injection	Light Duty	RELabel	GL-15 through GL-65 has been previously extend in Costilization data Ican be derived from the Verify-back end vis the Test Group (GL13.5). 70-35	Verily	Back- i End	Pra- Existing- Data		Presingly solidated in test group late.
GL-25		FuelEconomyLabelSubmissi nifuelEconomyLabelSubmissi sicEngendUests	EngineConfigurationNumb	FALSE	1 per FE Label	N(2)	Integer					1 99			Light Duty.	FE Label	The Engine Configuration Number along with the Testgroup Name (EL Hybrid Combuston Engine Description Information (TG-28 Intrough TG-28) from Engine Description Information, The referenced atas elements (EL-18 trough S-4) do not easily be do need to be displayed on FE Label enseme. Cal-16 Frough C-46 has been do need to be displayed on FE Label enseme.	Mr	Front End	XM.	LD-FE-GLIBROSS Update LD-FE-GLIBROSS	This angles configuration number must lead in combination with the test group name cited above (GL-13.6) in Testgroup Information. Required when Drive Source (GL-13.5.1) is 'C' (Combustion Brighes).
GL-26 GL-27	The engine displacement (Brighter Displacement (Berr) Internet (Berr) Internet FE Label Cylinder Daschvation Cylinder Daschvation Her Displacement Her Displace		EngineDisplacementValue CylinderDeactivationIndicat or	FALSE	1 per FE Label	N(5,3) A(1)	Decimal Enumer ation			5	3	0.001 99.999		/= Yes = No	Light Duty	FE Label	dala. Itcan be derived from the Verify back end via the Test (Group (GL 13.5), TG-38 GL-16 through GL-65 has been previous/y entend in Certification data. Itcan be derived from the Verify back end via the Test (Group GL 13.5), TG-39	Verify		Pre- Existing Data Pre- Existing Data		Previously wildated in test group info.



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EPA Data Element Number	Long Name	Description	Parent's Name	XMLTag	Required	Multiplicity	Data Basic Type Data Descri Type ion	ipt <u>Min</u> Length	Max Length P	Total attern Digits	Fraction al Digits	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti on Point	Collecti on Type	Applicable Business Rules	English validation rules
Fuel Econor	my Label Information	The															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group					
		applicable type of battery for this FE Label.												LA = Lead Acid NIMH = NIMH			data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-		
GL-43	Battery Type			BatteryTypeldentifier	FALSE	1 per FE Label	A(4) ation	er 1						UI = Li+ OT = Other	Light Duty	FE Label	TG-79	Verify	Back End	Existing Data		Previously validated in test group info.
		The description of the battery type for this															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).					
GL-44	Battery Type if Other	type for this FE Label if "other" selected.		BatteryTypeOtherText	FALSE	1 per FE Label	A(30) String	g 1	30						Light Duty	FE Label	(GL13.5). TG-80	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The total number of batteries for															GL-16 through GL-65 has been					
		batteries for this FE Label. Does not include															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-		
GL-45	Number of Batteries	starter batteries.		BatteryCount	FALSE	1 per FE Label	N(3) Intege	er				0	999		Light Duty	FE Label	TG-81	Verify	Back End	Existing Data		Previously validated in test group info.
		The total voltage of all battery pack(s) for																				
		battery pack(s) for this FE Label. Does not include starter															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group					
GL-46	Total Voltage of Battery Pack(s)	starter batteries. (in Volts)		BatteryTotalVoltageMeasur e	FALSE	1 per FE Label	N(3) Intege	ar				1	999		Light Duty	FE Label	(GL13.5). TG-82	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The battery energy capacity for																				
		this FE Label. Does not include															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group					
GL-47	Battery Energy Capacity	starter batteries. (in Ah)		BatteryEnergyCapacityMeas ure	FALSE	1 per FE Label	N(4,2) Decim	al		4	2	0.01	99.99		Light Duty	FE Label	(GL13.5). TG-83	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The battery																				
		energy for this FE Label. Does not include starter															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).					
GL-48	Battery Specific Energy	starter batteries. (in Whr/kg)		BatterySpecificEnergyMeas ure	FALSE	1 per FE Label	N(5,1) Decima	al		5	1	0.1	9999.9		Light Duty	FE Label	TG-84	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The applicable type of															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group					
GL-49	Battery Charger Type	battery charger type for this FE Label.		BatteryChargerTypeldentifie	FALSE	1 per FE Label	A(3) ation	er						ON = On-Board OFF = Off-Board B = Both	Light Duty	FE Label	Verify back end via the Test Group (GL13.5). TG-85	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The number				.,											GL-16 through GL-65 has been	,				· · · · · · · · · · · · · · · · · · ·
	Number of Capacitors	of capacitors for this FE Label											99				data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-86	Verify	Back End	Pre- Existing Data		
GL-50	Number of Capacitors	Label.		CapacitorCount	FALSE	1 per FE Label	N(2) Intege	ar				0	99		Light Duty	FE Label	TG-86 GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group	Verity	End	Data		Previously validated in test group info.
		each capacitor number (in															(GL13.5).		Back End	Pre- Existing		
GL-51	Capacitor Rating In Farads	farads). Any additional		CapacitorRatingValue	FALSE	1n	N(4,2) Decim	al		4	2	0.01	99.99		Light Duty	FE Label	TG-87 GL-16 through GL-65 has been previously entered in Certification	Verify	End	Existing Data		Previously validated in test group info.
		about the capacitor(s) for this FE															data. It can be derived from the Verify back end via the Test Group (GL13.5).		Back	Pre-		
GL-52	Capacitor Comments	Label. The		CapacitorCommentText	FALSE	1 per FE Label	A(100) String	g 1	100						Light Duty	FE Label	TG-88 GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the	Verify	Back End	Existing Data		Previously validated in test group info.
		description of the hydraulic system for															data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-		
GL-53	Hydraulic System Descripti	this FE ion Label. The		HydraulicSystemDescriptio nText	FALSE	1 per FE Label	A(1000) String	g 1	1000						Light Duty	FE Label	TG-89	Verify	Back End	Existing Data		Previously validated in test group info.
		applicable type of regenerative braking															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the					
		technology utilized on this FE			TRUE		Enumo A(3) ation	er						NA = Not applicable (default) ERE = Electrical Regen Brake HRE = Hydraulic Regen Brake OT = Other			previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-90		Back End	Pre- Existing Data		
GL-54	Regenerative Braking Type	Label.		BrakingTypeldentifier	TRUE	1 per FE Label	A(3) ation							u = Uher	Light Duty	FE Label	1G-90	Verify	End	Data		Previously validated in test group info.
		description of the type of regenerative braking															GL-16 through GL-65 has been					
		utilized on this FE															previously entered in Certification data. It can be derived from the Verify back end via the Test Group					
GL-55	Regenerative Braking Type "Other"	Label if *other* is selected.		BrakingTypeOtherText	FALSE	1 per FE Label	A(1000) String	,							Light Duty	FE Label	(GL13.5). TG-91 GL-16 through GL-65 has been	Verify	Back End	Pre- Existing Data		Previously validated in test group info.
		The applicable source of regenerative															GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).					
GL-56	Regenerative Braking Sour	braking for this FE ce Label.		BrakingSourceIdentifier	FALSE	1 per FE Label	Enume A(1) ation	er i						F = Front Wheels R = Rear Wheels B = Both	Light Duty	FE Label	(GL13.5). TG-92	Verify	Back End	Pre- Existing Data		Previously validated in test group info.

EPA Data Bernent Number Long Name Fuel Economy Label Information	Description	Parent's Name	XMLTag	Required	Multiplicity	Basic Data Type	Data Type Descript ion	<u>Min</u> Length L	Max_ ength. P	attern Digit	I <u>Fractik</u> s al Digi	on its Min Value	Max Value		Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u> on 1	ecti <u>Colle</u> Point on Ty	zti 20 Applicable Business Rules	English validation rules.
Driver Controlled GL-57 Regenerative Braking	Does this FE Label have driver- controlled regenerative braking?		DriverControlledBrakingIndi cator	FALSE	1 per FE Label	A(1)	Enumer							N = No Y = Yes		Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-93	B. Verify E	Pre ick Existi nd Dat	ng	Previously validated in test group info.
Number of Drive GL-58 Motor/Generator(s)	The number of drive motor/gener ator(s) for this FE Label.		MotorGeneratorCount	FALSE	1 per FE Label	N(1)	Integer					0	9			Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL13.5). TG-94	Bi Verify E	Pre ick Existi nd Dat	9	Previously wildated in test group into.
GL-59 Motor/Generator Type	The applicable type of motor/gener ator for this FE Label.		GeneratorTypeldentifier	FALSE	1.n	A(4)	Enumer ation							ACI = AC DCB = D DCPM = SR = Swi OT = Oth	Induction C Brushless DC Permanent Magnet, brushless tithed Reluctance er	Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-95	B: Verify E	Pre ick Existi nd Dat	19	Previously utilidated in test group info.
GL-60 Motor/Generator Type if Of	The description of the type of motor/gener ator for this FE Label if other is her selected		GeneratorTypeOtherText	FALSE	1n	A(30)	String	1	30							Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL-13.5). TG-96	B: Verify E	Pre ick Existi nd Dat	ig i	Previously validated in test group info.
Rated Motor/Generator GL-61 Power	The rated power of the motor/gener ator for this FE Label. (in kWatt)		GeneratorRatedPowerValu	FALSE	1	N(3)	Integer		50			1	999			Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-97		Pre ick Existi nd Dat		Previously window in text group into.
GL-62 Fuel Cell Description	The description of the fuel cell for this FE Label.		FuelCellDescriptionText	FALSE	1 per FE Label	A(1000)	) String	1	1000							Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-98	Bi Verify E	Pre ick Existi nd Dat		Previously validated in test group info.
Fuel Cell On-Board H2 GL-63 Storage Capacity	The on- board hydrogen storage capacity for this FE Label. (in kg)		FuelCellOnboardHydrogen StorageMeasure	FALSE	1 per FE Label	N(5,2)	Decimal			5	2	0.01	999.99			Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-99	B: Verify E	Pre ick Existi nd Dat	ig	Previously validated in test group into.
GL-64 Usable H2 Fill Capacity	The usable hydrogen fill capacity for this FE Label. (in kg)		UsableHydrogenFillCapacit yMeasure	FALSE	1 per FE Label	N(5,2)	Decimal			5	2	0.01	999.99			Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-100	B: Verify E	Pre ck Existi nd Dat	ng	Previously validated in test group info.
GL-65 HEV EV Commonts	Any additional comments for this electric vehicle or hybrid- electric vehicle.		ManufacturerCommentText	FALSE	1 per FE Label	A(1000)	) String	1	1000							Light Duty	FE Label	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL13.5). TG-101	B: Verify E	Pre ck Existi nd Dat	ng	Prevously validated in test group into.
Transmission Class Inform	nation													A = Auton AM = Auto	natic Imated Manual							
GL-67 Transmission Type	Label. Enter a	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails	o TransmissionTypeldentifier	TRUE	1 per FE Label	A(3)	Enumer ation							M = Manı SA = Sen CVT= Co SCV=Sel with pad OT = Oth	ral ni-Automatic ntinuously Variable ectable Continuously Variable (e.g. CVT dles)	Light Duty	FE Label		Mr E	ont nd XML	LD-FE-GL-BR093 New LD-FE-GL-BR117	GL-BRSE: If Transmission Type (GL-67) is equal to CVF (Continuously Variable), then Number of Transmission Gears (GL-71) must equal 'T.
GL-68 Transmission Type If Othe	r selected.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails	) TransmissionTypeOtherTex t	FALSE	1 per FE Label	A(30)	Normali zed string	1	30							Light Duty	FE Label		Fr Mfr E	ont nd XML	LD-FE-GL-BR007	lf GL-67 – Other then GL-68 is required.
GL-69 Transmission Lockup	Does this FE Label have a transmissio n torque converter lock-up mechanism 2	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails	) TransmissionLockupIndica	TRUE	1 per FE Label	A(1)	Enumer ation							Y = Yes N = No		Light Duty	FE Label		Mr E	ont nd XM4	New LD-FE-GL-BR117	
	Does this FE Label have any transmissio n creeper gear(s)? Creeper gear is															y						
GL-70 Transmission Creeper Get	defined as having a	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails	TransmissionCreeperGearl ndicator	TRUE	1 per FE Label	A(1)	Enumer ation							Y = Yes N = No		Light Duty	FE Label		Fr Mfr E	ont nd XML	New LD-FE-GL-BR117	
Total Number of GL-71 Transmission Gears	total number of forward transmissio n gears for this FE Label. Enter "1" for CVT	FuelEconomyLabelSubmissio n/FuelEconomyLabelOetails/T ransmissionClassDetails	TransmissionGearCount	TRUE	1 per FE Label	N(2)	Integer					1	99			Light Duty	FE Label		Fr Mir E	ont nd XML	LD-FE-GL-80058 New LD-FE-GL-88117	

420d11003.xls FE Label+

EPA Data Element Number Fuel Econo	Long Name Desc my Label Information	ption Parent's Name	XMLTag	Required	Multiplicity	Basic Data Type	Data Type Descript Min ion Length	<u>Max.</u> <u>Length</u> Pattern Digits	Fraction al Digits Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator or	ellecti <u>Coll</u> Point on 1	icti spe Applicable Business Rules	English validation rules
GL-72	drive s for this Drive system Label	ible stem FuelEconomyLabelSubmiss FE n/FuelEconomyLabelDetails ransmissionClassDetails	io Л TestDriveCode	TRUE	1 per FE Label	A(1)	Enumer ation				4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, front P= Part-time 4-wheel drive A = All wheel drive	Light Duty	FE Label		Mir	Front End X0	L New LD-FE-GL-BR117	
GL-73	Enter applic transr n over system this Fi	te ible issio Irive for FuelEconomvLabelSubmiss	io	TRUE	1 per FE Label	A(1)	Enumer				1 = No gear ratio < 1 2 = Top gear ratio < 1	Light Duty			Mir	iront End X0		
GL-73	ls a si indica light u for this	ift ar lized FE	ther	TRUE	1 per FE Label	A(1)	ation					Light Duty	FE Label		Mr	End X0	L	
GL-74	Shift Indicator Light ns.	ted I FuelEconomyLabelSubmiss	io /Γ icator icator	TRUE	1 per FE Label	A(1)	Enumer ation				N – No Y – Yes	Light Duty	FE Label		Mir	iront End X0	L LD-FE-GL-BR008	Y is onlyvalid when GL-67 = M or XM or '07'.
	is an n mana (i.e. Stop?) etropin deucu utilize Label (See 4 8.3A, 5	eme art for C FuelEconomyLabelSubmiss n/FuelEconomyLabelSubmiss	io // EngineManagementSystem Identifier			A(1)	Enumer				N – No V – Yes				Mr	iront End X0		
GL-75	Engine Management System 4.) Enter numb trans n moc his Fi Label Number of Transmission AC 8:	ne frof rof isio rs for (See FuelEconom yLabelSubmiss n pFuelEconom vLabelSubmiss	io TransmissionModeNumber	TRUE	1 per FE Label		ation				LYes, Lut with lock-out features N = Net applicable V = Continuously variable, user selectable C = Computer controlled multiple gear ratios C = Computer controlled multiple gear 1 = 3 discrete lock-up pm ranges 5 = 5 discrete lock-up pm ranges 5 = 6 discrete lock-up pm ranges 7 = 7 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges	Light Duty	FE Label			inont		
GL-76	Modes page Enter applicit lockur Label A.C 8:	ne bble s point ere		TRUE	1 per FE Label	A(1)	ation				9 - 9 discelle lock-up pm ranges N - Not applicable V - Continuously variable V - Continuously variable V - 1 discrete lock-up pm ranges 3 - 3 discrete lock-up pm ranges 5 - 5 discrete lock-up pm ranges 5 - 5 discrete lock-up pm ranges 5 - 6 discrete lock-up pm ranges 7 - 7 discrete lock-up pm ranges 8 - 8 discrete lock-up pm ranges 9 - 8 discrete lock-up pm ranges 1 - 8 discrete lock-up pm ranges	Light Duty	FE Label			iront	L	
GL-77	Variable lockup point page ls declut or freew g utili this Fi Label (See ,	.) ransmissionClassDetails hing eelin kl for		TRUE	1 per FE Label	A(1)	ation				9 = 9 discrete look-up rpm ranges	Light Duty	FE Label		Mfr	End XM		
GL-78	(See J 83A p Declutching/Free Wheeling 4.)		io /T DeclutchingFreeWheelingId entifier	TRUE	1 per FE Label	A(1)	Enum er ation				N = No Y = Yes L = Yes, but with lock-out features	Light Duty	FE Label		Mr	Front End X0		
NEW GL-78.1	Verig deer the of the of the of the of the of the of the of the of the of the of the of the of the of the of the of the of the the of the of the of the of the of the of the of the of the of the the of the of the of the of the the of the of the of the of the of the the of the of the the of the of	ine be sted vel tro d for heat e (GL- s f f f r of heat s to s		TRUE	1 per FELabel	A(12)	Enumer				Determined by Verity from GL-87 (Transmission Type) and GL-71 (Total number of Transmission GL-71 EL Ar Jack2000) M = Tanana(MO) M = Tanana(MO) CYT = Aug(AV) CYT = Aug(AV) CYT = Aug(AV) CYT = Color(CTSY) CYT =	Light Duty	FE Label	Determined by Venity from GL-67 (Total munket of Transmission Garanti as tolerations of Garantian Garanti as tolerations of GL-71 is: As - AnnexOM As - Manufacture As - AnnexOM As - AnnexOM Control (Control (Control)) As - AnnexOM (Control) As - AnnexOM (Control) As - AnnexOM (Control) As - AnnexOM (Control) (	Verify	iack Ass End i	ye -	
NEW GL-78.2	Mode to design design description mode description description value of the value of the to to to to to to to to to to to to to	Type uish uish uish uish uish uish uish uish	io Л ModelTypeDescriptionText	FALSE	1 per FE Label	A(30)	String 1	30				Light Duty	FE Label		Mfr	ront End XI		New II the combination of Model Year (GL-3), Carline Manufacturer Code (GL-16), Division Code (GL-11), Carline Code (GL-12), Test to roug (GL-13), Engine Configuration Number (GL-33), Teacensistor Mya (GL-37), Teacensisto Lesbag (GL-36), Number of Teacensistor Model (CL-30), and Only Manufactures (Teacensistor) Number of Teacensistor Model (CL-30), and North Systems (GL-37), and and a start full economy label then Model Type Descriptor Field (GL-76.3) in registed.

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EPA Dat	L						Basic Type													
Elemen Numbe	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Descrip Type ion	t <u>Min Max</u> Length Length Patter	n <u>Digits</u>	Traction al Digits Mir	Value Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	on Point	t <u>Collecti</u>	Applicable Business Rules	English validation rules
		Does this FE Label																		
	Police or Emergency Vehicle	only include police or emergency	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/L	PoliceEmergencyVehicleOn			Enume	r				N = No			"Police only" vehicle should not be		Front			
GL-86	Only	vehicles? Are you submitting	abelDetails	lyIndicator	TRUE	1 per FE Label	A(1) ation					Y = Yes	Light Duty	FE Label	included in the Fuel Economy Guide	Mir	End	XML		
		submitting recalculated FE Label																		
		values due to a	FuelEconomyLabelSubmissio																	If Process Code (GL-0.5) = "N' must not be present.
GL-87	Label Recalculation	Running Change?	n/FuelEconomyLabelDetails/L abelDetails	LabelRecalculationIndicato r	FALSE	1 per FE Label	A(1) Enume	r				N = No Y = Yes	Light Duty	FE Label		Mir	Front End	XML	LD-FE-GL-BR011 LD-FE-GL-BR012	Required if Process Code (GL-0.5) = 'C'.
		Did the label																		
		recalculatio n generate either higher																		
		or lower mpg values																		
		in comparison with the																		
		original label																		
		values? (note: This																		
		is a combination																		
		of "new Label indicator"																		
		and *Relabel	FuelEconomyLabelSubmissio																	If Process Code (GL-0.5) = "N' must not be present.
GL-88	Relabel Fuel Usage and Fuel Economy	Option* in CFEIS G1)	n/FuelEconomyLabelDetails/L abelDetails	RelabelChangeldentifier	FALSE	1 per FE Label	A(2) Enume ation	r				RL = Relabel - label value decreased RH = Relabel option - label value increased	Light Duty	FE Label		Mir	Front End	XML	LD-FE-GL-BR013 LD-FE-GL-BR014	Required if GL-87 (Label Recalculation) = Y, else must not be present.
	ruer cauge and ruer contain	, values																		
												G = Gasoline (Regular Unleaded Recommended)								
												GM = Gasoline (Mid Grade Unleaded Recommended) GMR = Gasoline (Mid Grade Unleaded Required)								
												GP = Gasoline (Premium Unleaded Recommended)								
												GPR = Gasoline (Premium Unleaded Required) D = Diesel, low sulfur (500 ppm) (obsolete after MY2006)-								
												DU = Diesel, ultra low sulfur (15 ppm, maximum) M = Methanol								
												E = Ethanol (E85) CNG = Compressed Natural Gas LNG = Liquefied Natural Gas								
		Enter the applicable										LPG = Liquid Petroleum Gas H = Hydrogen							LD-FE-GL-BR015	If one of the values that begins with 'G' is selected for fuel usage, then the second fuel usage (if present) must not begin with 'G'.
GL-89	Fuel Usage	fuel used for this FE Label.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails	FuelUsageIdentifier	TRUE	1n per FE Label 4-2 (1 per Usage value)	A(3) ation	r				EL = Electricity BE = Battery Electric PE = Plus in Mybrid Electric	Light Duty	FE Label	Existing values of 'D' (Diesel, low sulfur (500 ppm)) are valid.	Mir	Front End	XML	LD-FE-GL-BR016 LD-FE-GL-BR049 LD-FE-GL-BR051	If one of the values that begins with $D^{\prime}$ is selected for fuel usage, then the second fuel usage (if present) must not begin with $D^{\prime}.$
		Enter the applicable																		
		unit of measure for																		If Drive Source (GL-13.5.1) equals 'C' (Combustion Engine), then Fuel Economy Value Unit (GL-90) equals 'MPG' (miles per gallon).
		tuel economy values																	LD-FE-GL-BR017 LD-FE-GL-BR018	If Fuel Usage (GL-89) equals "H" (Hydrogen) and Fuel Cell Indicator (GL-13.5.8) equals 'Yes' then Fuel Economy Value Unit (GL-90) must be 'MPK' (miles per kilogram).
		based on this Fuel	FuelEconomyLabelSubmissio									MPG = miles per gallon (default)					_		LD-FE-GL-BR041 New LD-FE-GL-BR105	If there is only one Drive Source (GL-13.5.1) and that Drive Source equals 'E' (Electric
GL-90	Fuel Economy Value Unit	Usage value. Enter the	n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails	rueii:conomyValueUnitiden tifier	TRUE	(1 per Fuel Usage value)	A(8)	3 8	+			MPK = miles per kilogram KW-HR/100MLES = kilowatt-hour per 100 miles	Light Duty	FE Label	FE Units might be changing with the new FE Label rule	Mir	Front End	XML	New LD-FE-GL-BR106 New LD-FE-GL-BR107	Motor), then Fuel Economy Value Unit (GL-90) must be 'KW-HR100' (kilowatt-hour per 100 miles).
		annual fuel cost for this																1		
		FE Label using 15,000																1		
	Annual Fuel Cost (Calculated	miles of driving per	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/F			<del>1.2</del> 1 per Fuel Usage											Front			
GL-81	Annual Fuel Cost (Calculated by Manufacturer)	year.	uelUs age AndÉconomyDetails	AnnualFuelCostNumber	TRUE	Value	N(5)				1 99999		Light Duty	FE Label		Mfr	Front End	XML		Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Electricity"
		The Verify calculated																		
		annual fuel cost for this																		
		FE Label using 15,000															Backen			
NEW	Annual Fuel Cost (Calculated	miles of driving per			TRUE	1 per Fuel Usage										Verify	d Front- End	Assigne d	New LD-FE-GL-BR108	Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Electricity"
GL-81.1	by Verify)	year.			TRUE	Value	N(5)				1 99999			FE Label		Mfr.	End	XML	New LD-FE-GL-BR108	Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Bectricity"

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EPA Data Element Number							Basic Data Type	Data Type Descript M	in Max	T	tal Fractio								Collecti	Collecti		
Number Fuel Econo	Long Name ny Label Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	ion Ler	gth Length	Pattern Di	gits al Digit	s Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	on Point	on Type	Applicable Business Rules	English validation rules
	Mfr Unrounded Upadiusted	Provide the manufacture r calculated unrounded unrounded undjusted Model Type city fuel economy value (not 5- cycle calculated values). This regulated for approaches. Economy values for approaches. Economy calculated approaches. Calculated approaches.	FuelEconomy, AdelSuberissio FreeEconomy, AdelSuberissio With SuperVision Constructions Subadded for JoneSuberis		TRUE	1-3 (1 per Fuel Usage value)					7 4								Front End		Delete 10/F-G4-65019a Delete 10/F-G4-65019b	
<u>GL-91</u>	Mindel Type Coy FE Value Mir Ukroande d Ukadjusted Biotel Type Highway TH Value	Provide the manufacture r calculated unrounded/ unrounded/ undigutated to hoded Type highway fuel calculated calculate	FuelEconom_LabelSubmisso fuelEconom_LabelSubmisso of uelEconom_LabelSubmisso NeuroIstum UmonoeUnom NeuroIstum UmonoeUnom		TRUE	(1 per Fuel Usage	N(7,4) [	Decimal				0	999.9999		Light Duty			Mir	Front End	XX4L	Delete LD/E-GL-880196 Delete LD/E-GL-880196 Delete LD/E-GL-880196	
	Model Type Highway /E Value Mir Uhroended Unadjusted Model Type Combined FE Value	Provide the manufacture calculated unrounded/ unodigited production combined fiel economy s- cycle calculated values). This value (not value s). This value inst required for approaches. Conomy- Calculation. Approaches. Conomy- Calculation.	FuelEcoromy, abelfadomissio of see Ecoromy, abelfadomissio		TRUE	value) (1 per Fuel Usage value)	N(7.4) [	Decimal			7 4	0	990.0999		Light Duty	FE Label		Mfr	Front End	XML_XML	Delete LD/E-GL-880195 Delete LD/E-GL-880196 Delete LD/E-GL-880196	Nucl be present 2 G. 49 (fuel Usage) UE and 7E, else, must not be present.
		If the whick- specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated unrounded to Model Type city fuel economy value. This value has been adjusted Model Type world driving shortfall, but has not been rounded to the label-	FasiEuroom, dekiBahmiski nFasiEuroom, dekiBahmiski Mandeturur TacQodinoom, dekiBah Mandeturur Jacobahmiski Jacobahmiski	ChiFuelEconomyValue	TRUE	(1 per Fuel Usage value)	N(7.4) [	Decimal			7 4	0	990 9999		Light Duty	FE Label		Mir	Front End	XML	Delete LDFE-GL-89020s Delete LDFE-GL-89020b Delete LDFE-GL-89020b	New has present # 66-79 ~ 16-6897 or 1007, etc.

EPA Data Element	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Descript Mi ion Len	n <u>Max</u>	Pattern	Total Fracti	ion its Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti on Point	Collecti	Applicable Business Rules	English validation rules
	Label Information	specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated adjusted Model Type conomy value. This been adjusted using the 5- cycle method for the real- world driving shortfall, but has not fall, but has not	FuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio nFuelEconomyLabelSubmission		TRUE	(1 per Fuel Usage													Front End		Directo LDR-64-880396 Directo LDR-64-880396 Directo LDR-64-880396 Directo LDR-64-880396	
	Yabe	If the vehicle specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated adjusted Model Type ecombined fuel economy value. This been adjusted using the 5- cycle method for the real- word driving shortfall, but has not	FuelEconomyLabelSubmissio nifueEconomyLabelSubmissio nifueEconomyLabelSubmissio nifueEconomyLabelSubmissio	CombinesFuelEconomytV	TRUE	<pre>table</pre>	N(7.4) E	Decimal			7 4	0	999,9999		Light Duty	FE Label		Mir	Front	XM. XM.	Delete LD-FE-GL-89920c Delete LD-FE-GL-89920s Delete LD-FE-GL-89920s Delete LD-FE-GL-89920s	Must be present if G. 72 - 30 DRF or TPF, then, must not be present.
Adj	r Calculated Rounded Junited Model Type City FE	Provide the manufactur er- calculated, rounded and adjusted Model Type conomy value. This adjusted value economy value. This adjusted value driving and has been rounded for a whole number for label This value.	FuelEconom yLabelSubmissio niFuelEconom yLabelSubmissio nuElsageArdEconom yDeatailu Manufacture Catrulate(Nourd diciguis edited) rup yDeataila	ChyFutHConomyAumber	TRUE	(1 per Fuei Usage value)	N(3)	Integer				0	999		Light Duty	FE Label		Mfr	Front End	XML	Delete (DFE-GL-88021a Delete (DFE-GL-88021b Delete (DFE-GL-88023) New LDFE-GL-88114 New LDFE-GL-88111 New LDFE-GL-88111	Matt in present # 20-15 - Tr.
Mi Adj GL-98 Hég	r Calculated Rounded Jurated Model Type Jury PF Value	manufactur er- calculated, rounded and adjusted Model Type highway fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole	FuelEconomyLabelSoltmissio nifuelEconomyLabelSoltmissio NaturalschureCalculateRoum/Deatails/ NaturalschureCalculateRoum/Deatails	HighwayFuelEconomyNum Eer	TRUE	s (1 per Fluel Usage value)	N(3)	Integer				0	999		Light Duty	FE Label		Mfr	Front End	XML	Dente LD/FLGL-80011a Delter LD/FLGL-80011b Delter LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104	Mark in press # G.45 - SF.

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EPA Data Element Number Fuel Econor	Long Name	Description	Parent's Name	XMLTag	Required	Multiplicity	Basic Data Type	Data Type Descript ion Le	Min Ma angth Leng	x_ th Pattern	<u>Total</u> Digits		n Value	Max Value		Allowed Values	Indus	ry Proces	55	Notes/Questions	Originator	Collecti on Point	Collecti on Type	Applicable Business Rules	English validation rules
	Manufacturer-Calculated Highway Fuel Economy Labe Jaro Lover Range Value	Enter the manufacture r-calculated highway lower range value using the official highway city fuel e conomy label value.	FuelEconomyLabelSubmissic nFuelEconomyLabelDetaile/F uelUsageArdiconomyOstabi ManufacturerHighwayLabelDe alis	t MiesPerGallonLowerRang eNumber	TRUE	1-2 (1 per Fuel Usage value)	N(3)	Integer	1 3				0	999	1-999		Light C	iuty FE Labi	pel		Mr	Front End	XML	Delete LD-FE-GL-BR026a Delete LD-FE-GL-BR026a	Must be present & GL-15 TeV.
	Manufacturer-Calculated Highway Fuel Economy Labe MRGU Upper Range Value	Enter the manufacture r-calculated highway upper range value using the official highway	FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails/F uelUsageArdiconomyOstabi ManufacturerHighwayLabelDe alis	) // t MilesPerGallonUpperRang eNumber	TRUE	1-2 (1 per Fuel Usage value)	N(3)	Integer	1 3				0	999	1-999		Light C	luty FE Labi	cel		Mr	Front End	XML	Deine LAFE-GL-BROSEs Deine LAFE-GL-BROSEs	
GL-103	Model Type Driving Range (PA Method) (mmis)	driving range (minimum and maximum, if applicable) for this model type's fuel usage value following EPA guidance. This must be provided for all alternative fuels and also for models	en FasEconom, JabelSubmissi AfastEconom, JabelSubmissi			(1 per Fuel Usage	(4/20)	String	1 3	'nnn' = Single range; 'nnnhnn '= Shortes' and longest ranges for this model type that have availabl e muliple fuel tanh capaciti e es.				223	1733		Light C			hnn' - Single range Innnhm' - Shortest and longest Jages for this model (spe Balt have capacities that	Mr	Front End	XML	LD-FE-CL-80046 New LD-FE-CL-80046 New LD-FE-CL-80046 Delete LD-FE-CL-80028	Request 6(1, 15 – DF or 16F Request 6(1, 15 – DF or 16F Request 6(1, 15 – DF or 16F EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all
	(Erkinetikoj (urminis) Maximum Ethanol Percentage	eftanol percentage	FuelEconom yLabelSubmissic nFuelEconom yLabelDetails;# uelUsageAndEconom yDetails		FALSE	(1 per Fuel Usage value)	N(3,1)	Decimal			3	1	0	99.9			Light C			capatures.	Mfr	Front End	XML	Update LD-FE-GL-6R029	ner verge in skang groome ant weve. Required FGL-80 (Fiel Usage) = Er ((Sharo) or one of the Fuel Usage Types that legtes with 'Cr (Baseline); otherwise not allowed.
GL-105	Maximum Bio-diesel Percentage	manufacture r.	FuelEconomyLabelSubmission n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails	Maxim um Biodies el Percent ageNum ber	FALSE	12 (1 per Fuel Usage value)	N(3)	Integer			3	0	0	100			Light D	uty FE Labr	oel		Mr	Front End	XML	Update LD-FE-GL-BR030	Required if GL-89 = 10 <sup>-1</sup> or-DU, otherwise not allowed.
GL-106.1	Certification Region Code	Enter all applicable certification region codes for this FE Label. This was previously referred to as 'sales area' in CFEIS.	FuelEconomyLabelSubmissic nFuelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomy	A CertificationRegionCode	TRUE	1.2 (1 for each certification region code)	A(2)	Enumer ation							CA = California FA = Federal	+ CAA Section 177 states	Light D	utyFE Labi	pel		Mfr	Front End	XML		
NEW GL-106.2	Actual Model Sales Area	Select all applicable US states and territories where this vehicle model is offered for sale.	FuelEconomyLabelSubmissik nFuelEconomyLabelBetails/J delTypeDEtails/J	ActualModelSalesArealde	TRUE	1.n	A(2)	Enumer ation							Display full list	of all US states	Light (	uly FE Labo	a Sel	Manufacturers will select all that apply.	Mfr	Front End	XML		
		Verify- generated- footprint-	FuelEconomyLabelSubmissis n/FuelEconomyLabelDetails/f odelTypeDetails/ModelTypeFi	2 4 2	FALSE	1_n (1 for each- footprint per FE													2 14	For web ecreens, Verify should automatically increment the index- when mfr chooses to add another- footprint. For batch, does the mfr-		Front- End			Roquired # Class Code (CL-5) -== '10', else optional.
GL 106.5	Hodel Type Footprist. Description	Enter the manufactur origination (opprint) (op	Res Scoren, Labs Scheller Adultic connut, Labs Scheller Adultic connut, Labs Scheller	A MadelTypeTapation	FALSE TRUE	Lun(I-for each footprint-put FE Laber)	A(300)	string	1 300		-						Light	uty FELabo	201			Front-	XAAL	Delec LDFEQL 6801	Required & Class Code (CL-0) 10°, vite optimul.

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Inertia Weight Clas

420d11003.xls FE Label+

1...n (1 for each Base Level within a Model Type)

TRUE

Light Duty FE Label English validation rules

64 of 123

LD-FE-GL-BR052 LD-FE-GL-BR063 LD-FE-GL-BR065 LD-FE-GL-BR065 LD-FE-GL-BR065 LD-FE-GL-BR076 LD-FE-GL-BR070 LD-FE-GL-BR071 LD-FE-GL-BR071 LD-FE-GL-BR074 LD-FE-GL-BR074 LD-FE-GL-BR077

1.6



420d11003.xls FE Label+



EPA Data Element Number Fuel Econo	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Descript M ion Len	lin <u>Max</u> ngth Length	h. Pattern	<u>Total</u> Frac Digits al Di	tion gits Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Collecti Originator on Point on Type	Applicable Business Rules	English validation rules
GL-120.4	EPA-Calculated 5-cycle Unrounded Adjusted Configuration City FE Value	Verify- calculated 5- cycle unrounded adjusted configuratio n city fuel economy value.	ver FuelEconomyLabelSubmi ssion/ver-RuelEconomyLabel Details/ver-EXAGeneratedPuel EconomyDetails/ver-Calculate divulUtagadn/deConomyDetails/ver-CalculatedDasgate alta/ver-CalculatedDasgate.vevID estails/ver-CalculatedConfiguration RiveOcycloAdjustedUnrounded Details	CityFuelEconomy4Value	FALSE	1n (1 for each Configuration within each Base Level within a Model Type)	1 ) N(7,4)	Decimal			7 4	. 0	999.9999		Light Duty	FE Label	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Back Assigne Verity End d		
GL-120.5	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Highway FE Value	Verify- calculated 5- cycle unrounded adjusted configuratio n highway fuel economy value.	ver-SuelEconomyLabelSubmi ssion/ver-FuelEconomyLabel Details/ver-EPAGeneratedFuel EconomyDetails/ver-CalculatedFuel EconomyDetails/ver-CalculatedEconfigur als/ver-CalculatedEconfiguration RevCycleAdjustedUnrounded Details	HighwayyFuelEconomy4Va Iue	FALSE	1_n (1 for each Configuration within each Base Level within a Model Type)	1 ) N(7.4)	Decimal			7 4	0	999.9999		Light Duty	FE Label	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Verity Back Assigne End d		
GL-120.6	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Combined FE Value Sub-configuration Info (Multi is	Verify- calculated 5- cycle unrounded adjusted configuratio n combined fuel economy value. subconfigurati	ver-FuelEconomyLabelSubmi ssion/ver-FuelEconomyLabel Details/ver-EPAGeneratedFuel EconomyDetails/ver-Calculate/ dFuelUsageAndEconomyDeta ils/ver-CalculatedConfigur asionDetails/ver-Configuration FueCycleAdjustedUnrounded Details ons may exist within a Configu	CombinedFuelEconomy4V alue ration)	FALSE	1n (1 for each Configuration within each Base Level within a Model Type)	) N(7,4)	Decimal A su	ıb-configurat	tion is defined	7 4 d as a unique	0 combination c	999.9999 f equivalent test we	ight, and road-load horse power, etc. within a c	Light Duty	FE Label	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Verity Back Assigne End d		
GL-121	Subconfiguration Index	index number assigned by the manufacture r to identify this subconfigur ation within a configuratio n. Subconfigur ation Index is used to subconfigur ation Index is used to configuratio n that configuratio n that configuratio that configurati	FuelEconomyLabelSubmissio officielEconomyLabelSubmissio unisConfiguratorDeataisAk unisConfiguratorDeataisA		TRUE	Lue (1 for each Subconfiguration within each Base Level With Type)	N(2)						29		Lieht Duy	FE Label		Front Mr End XML	LD-FE-GL-BR054	
	Total Road Load Horsepower	Enter the total road load horsepower at 50 mph	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M odelTypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails		TRUE	4-m (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(3,1)	Decimal					99.9		Light Duty			Front Mir End XML	LD-FE-GL-BR056	
GL-123	Equivalent Test Weight (ETW)	Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class.	FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsM oddTypeOEtails/SabeLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails	EquivalentTestWeightValue	TRUE	4 (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)		Enumer ation 1	1 5			0	14000	1000, 1125, 1250, 1375, 1500, 1625, 1750, 1 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2 2000, 3125, 3250, 3375, 3300, 3625, 1750, 3 2000, 3261, 3500, 6400, 6500, 7000, 7500, 1000, 1500, 1200, 1500, 11000, 11500, 14000		FE Label		Front Mir End X04	LD-FE-GL-88056 LD-FE-GL-88052	Must be a valid Equivalent Test Weight (ETW) within a specified Ineria Weight Class as defined in paragraph 40 CFR 86.129
GL-125		Enter the altitude for which the vehicles within this subconfigur ation are offered for sale.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails.M odeTypeDetails:BaseLevelDe taiki:ConfigurationDetails ConfigurationDetails	SaleAltitudeCode	TRUE	4-m (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	Enumer ation						A – All sittude L – Low altitude only H – High altitude only	Light Duty	FE Label		Front Mir End XML		
GL-125.0.1	EPA-Calculated Unrounded Unadjusted Subconfiguration City FE Value	Verify- calculated unrounded unadjusted subconfigur ation city fuel economy value.	ver-EuelEconomyLabelSubmis sion/ver-EuelEconomyLabelSubmis sion/ver-EuelEconomyLabelDe tails/ver-ERAGeneratedFuelEc onomyDetails/ver-CalculatedF uelL'sage/ArdEconomyDetails/ver-CalculatedSubConfig arter-CalculatedSubConfig uration/Details/ver-SubConfig uration/Details/ver-SubConfig uration/UnadjustedUnrounded Details	CityFuelE: onomy4Value	FALSE	1 for each Subconfiguration within each Configuration within each Base Level within each Model Type	N(7,4)	Decimal			7 4	0	999.9999		Light Duty	FE Label	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Back Assigne Verify End d		
GL-125.0.2	EPA-Calculated Unrounded Unadjusted Subconfiguration Highway FE Value	Verify- calculated unadjusted subconfigur ation highway fuel economy value.	ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSo- talis/ver-F2AculatedF uelUs age/ArdEconomyOetails/ ver/CalculatedConstguration s/ver-CalculatedConfiguration Jean/CalculatedConfiguration Jean/CalculatedConfiguration Jean/Sub-Config uration/Details/ver/Sub-Config uration/Data/ustedUnrounded Details	HighwayyFuelEconom y4 Va Iue	FALSE	1 for each Subconfiguration within each Configuration within each Base Level within each Model Type	N(7.4)	Decimal			7 4	0	999.9999		Light Duty	FE Label	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Back Assigne Verity End d		

EPA Data Element							Basic Data D	Data Type Descript Mi	in Max	Pattern Di	otal Fractio	n						Collecti Collecti		
Number Fuel Econor	Long Name my Label Information	Description	Parent's Name	XMLTag	Required	Multiplicity	Type	ion Len	gth Length	Pattern Di	gits al Digit	s <u>Min Value</u>	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator on Point on Type	Applicable Business Rules	English validation rules.
GL-125.0.3	EPA-Calculated Unrounded Unadjusted Subconfiguration Combined FE Value	Verify- calculated unrounded unadjusted subconfigur ation combined fuel n economy value.	sion/ver-Fusileconomy.tabelDe tails/ver-EPAGeneratedFuelEc onomyDetails/ver-CalculatedF uelUsage/ndEconomyDetails/ ver-CalculatedGaseLevelDetail s/ver-CalculatedGaseLevelDetail s/ver-CalculatedGaseLevelDetail urctaionDetails/ver-SubConfig urationDtails/ver-SubConfig urationDnadjustedUnrounded Details	CombinedFuelEconomy4V alue	FALSE	1 for each Subconfiguration within each Configuration within each Base Level within each Model Type	N(7,4) D	Decimal			7 4	0	999.9999		Light Dut	ÆLabel	These fields already exist in the Verify database but were not included in the data requirements spreadsheet	Back Assigne Verify End d		
GL-125.0.4	EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration City FE Value	Verify- calculated 5 cycle unrounded uadjusted subconfigur ation city fuel economy value.	ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSubmis ellasaver-EPAGeneratedFuelEc- onomyDetals/ver-CalculatedF ver-CalculatedBaseLevelDetali selt-CalculatedDaseLevelDetali selt-CalculatedDaseLevelDetali selt-CalculatedSubCont gurationDetalis/ver-SubContig urationDetalis/ver-SubContig urationDetalis/ver-SubContig urationDetalis/	CityFuelEconomy4Value	FALSE	1 for each Subconfiguration within each Configuration within each Base Level within each Model Type	N(7,4) D	Decimal			7 4	0	999.9999		Light Duty	FE Label	These fields already exist in the Verily database but were not included in the data requirements spreadsheet	Back Assigne Verify End d		
GL-125.0.5	EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration Highway FI	Verify- calculated 5 cycle unrounded uadjusted subconfigur ation highway fuel economy	ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelDe tails/ver/EPAGeneratedFuelEc nom/Details/ver-CalculatedFuelEc uelUsage/ndEconomyDetails/ ver-CalculatedDaseLevelDetail s/ver-CalculatedDonfguration Details/ver-CalculatedDonfguration Details/ver-CalculatedDonfguration Juration/FuelSycleAdjustedUnro	HighwayyFuelEconomy4Va	FALSE	1 for each Subconfiguration within each Configuration within each Base Level within each Model							999.9999				These fields already exist in the Verify database but were not included in the data requirements	Back Assigne Verfy End d		
	EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration Combined	value. Verify- calculated 5 cycle unrounded uadjusted subconfigur ation combined fuel i economy	unded/etails ver-FuelEconomyLabelSubmis isolvare-FuelEconomyLabelDe tails/ver-EPAGeneratedFuelEc onomyDetails/ver-CalculatedF uelUsageAndEconomyDetails/ver-Calculated Seer-CalculatedConfiguration Details/verCalculatedSubcConfig urationFue/SytekAfjustedUmor autoinFue/SytekAfjustedUmor	Lue CombinedFuelEconomy4V		Type 1 for each Subconfiguration within each Configuration within each Base Level within each Model	N(7,4) D	Jecimal			7 4	0			Light Dut	FE Label	spreadsheet These fields already exist in the Verify database but were not included in the data requirements	Back Assigne		
GL-125.0.6	FE Value Sub-configuration Sales Info		undedDetails configuration-sales may exist w	alue rithin a Subconfiguration)	FALSE	Type 1-m (1 for each	N(7,4) D	Decimal A sul	b-configurat	on is defined a	7 4 s a unique co	0 mbination of	999.9999 equivalent test weight, a	nd road-load horse power, etc. withi	Light Dut in a configuration.	FE Label	spreadsheet	Verify End d		
GL-125.5	Manufacturer Code	Enter the applicable manufacture r code for this subconfigur ation sales information.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M odelTypeDetails/BaseLevelDe tails/ConfigurationDetails/SubConfi gurationDetails/SubConfi gurationSalesInformationDetai Is	EPManufacturerCode	TRUE	Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(3)	String 3	3	[A-ZD- 9](3)								Verify End XML	LD-FE-GL-BR059 New LD-FE-GL-BR117	
GL-125.6	Division Code	Enter the applicable manufacture r code for this subconfigur ation sales information.	FuelEconomyLabelSubmissio nrFuelEconomyLabelDetails oderTypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails/SubConfi gurationSalesInformationDetai Is	ManufacturerDivisionCode	TRUE	4-m (1 for each Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(2)	Integer 1	2			1	99					Manufactur Front er End XML	LD-FE-GL-88060 New LD-FE-GL-88096 New LD-FE-GL-88117	
GL-125.7	Carline Code	Enter the applicable manufacture r code for this subconfigur ation sales information.	FuelEconomyLabelSubmissio n=FuelEconomyLabelDetaitsM odelTypeDetails/BaseLevelDe tails:ConfigurationDetails/SubConfi gurationDetails/SubConfi gurationSalesInformationDetai Is	CarlineCode	TRUE	tan (1 for each Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(3)	Integer 1	3			1	999					Front Mir End XML	LD-FE-GL-BR061 New LD-FG-GL-BR096 New LD-FG-GL-BR17	NBW: The combination of Carline Manufacturing Code (CL-125.5). Division Code (CM- 125.6), Carline Code (CL-125.7). Transmission Type (L-CF), Transmission Cose) (CL-49), Transmission Creegor Coar (L-C), Total Number of Transmission Rears (CL-17), and Drive System (CL-72) must tests as a certified model in the Test Group dataset (T(G) for the Test Oroug (CL-15).
		Enter the applicable test group name for this subconfigur	FuelEconomy, LabelSubmission nFuelEconomy, LabelDeallis M odel TypeDetails/Baset.exelDe ConfigurationDetails/Sub-Configur			4-n (1 for each Subconfiguration sales row within each active sales and the sale within each Configuration within each Base Level within each Model Type) between public activity and configuration within each Societ and within activity activity and activity acti												Front	LD-FE-GL-RROM New LD-FE-GL-RR19	TestGroup must have already been certified. If hell Economy Latel Calculation Approach (G79) is equal to SC-MOV (Modified S- rych) have Test Graup (G.12) must have valid values (non-Null) or EPA Coly Limus Value (TC-213.1) and EPA Coly Limus Testeled (TC-213.2) and EPA Coly Limus Value (TC-213.2), must be greater than or equal to BA Coly Limus Theshold (TG- 13.3). If hell Economy Label Calculation Approach (G79) is equal to SC-MOV (Morried S- rych) latin TSE Graup (G.12) must have used values (non-Null (Net PPA Coly Limus Theshold (TG-213.4), and EPA Highway Limus Threated(TG-213.4), and EPA Coly Limum Value (TG-213.4), numb be greater than or equal to BA Coly Limus Threated(TG-213.4), and EPA Highway Limus Threated(TG-213.4), and EPA Coly Limus Value (TG-213.4), numb be greater have or equal to PA Highway Limus Values(TG-214.4) must be greater than or equal to PA Highway Limus Values(TG-214.4)
GL-126	Test Group	ation.	Is	TestGroupNam e	TRUE	each Medel Type)	A(12)	String 12	2 12	$\vdash$	_				Light Dut	FE Label	TG-2	Mir End XML	New LD-FE-GL-BR119 New LD-FE-GL-BR118	
GL-124	Subconfiguration Projected Sales	Enter the projected sales for this subconfigur ation.	FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsA odeTypeDetails/BaseLevelDe tails/ConfigurationDetails/SubConfi gurationSalesInformationDetail Is	SubConfigurationProjected SalesNumber	TRUE	Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type) Lon (1 Second Distribution within each Base Level within each Model Type)	N(6)	Integer				1	999999		Light Dut	FE Label		Mir End XML		Masi o 0.
	Test Vehicle Info (Multiple vehicles with multiple tests may exist within a sub- configuration)																Must be present when Subcortiguration Index (GL-121) is 1 to 49 and Configuration Index (GL 117) is 1 to 499 which indicates that the subcortiguration is represented by a tested vehicle; otherwise, must not present.			Nucl to present when Subconfiguration index (GL-121) is 1 to 49 and Configuration index (GL-171) is 1 to 49 which indicates that the subconfiguration is represented by a tested vehicle: otherwise, must not present.

EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Des	ata. ge cript <u>Min</u>	Max Length	otal Fract	tion gits Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti on Point	Collecti	Applicable Business Rules	English validation rules
Fuel Econo	LongName yy Label Information	applicable Test Number for this FE Label that was previously assigned by Verify in Test Number must be entered when Subconfigur aton Index (GL-121) is 1 to 49 and Configuration in Index (GL-121) is to 49 and Configuration																		LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC07 LD.FE.	
GL-127	Test Number	499 which indicates that the subconfigur ation is represented by a tested vehicle.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M ode/TypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails/TestVehi cleDetails Te	es Numberldentifier	FALSE TRUE	1_n (1 .n for each Toet within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(12) Str	ing						Light Duty	FE Label	Ti-1	Mfr	Front End	XML	New DF-5G-BH126 New DF-5G-BH127 New DF-5G-BH128 New DF-5G-BH129 New DF-5G-BH130 New DF-5G-BH131 New DF-5G-BH131 New DF-5G-BH142 New D-F-5G-BH143	Test Number must exist in Verly Test Info. Test Number must be present when Subconfiguration Index (GL-121) is 1 to 49 and Configuration Index (GL-11) is 1 to 449 which indicates that the subconfiguration is represented by a tabled whicle. Test Category for this Test Number must = "FTP", US06"; SC03", COLD or HWY.
GL-128	Vehicle ID	A unique alphanumer ic identifier assigned by the manufacture r to each test vehicle. A number			TRUE	1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) 1n (1 for each Test	A(20) Str	ing 1	20					Light Duty	FE Label	Find Vehicle ID'(TI-4) via Test Number (GL-127). TI-4> VI-2	Verify	Back End	Pre- existing data	New LD-FE-GL-BR120	
GL-129	Vehicle Configuration Number	previously assigned to specify a unique test vehicle configuratio n.			TRUE	within each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(2) Inte	iger			0	99		Light Duty	FE Label	Find Vehicle Configuration Number (TI-5) via Test Number (GL-127). TI-5 -> VI-3 This field will automatically be filled	Verify	Back End	Pre- existing data	New LD-FE-GL-BR120	The Valida ID (GL-123) and Valida Configuration Number (GL-128) combination must have associated Test Procedure Dynamoneter Confficients Category (H-453) equal to "CH-E" (ClynhopmaySwy).
GL-130	Test Category	The applicable test category for this test.			TRUE	1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(6) at	imer					FTP - Federal Test Procedure USG - USG SC03 - SC03 FCW - Esposite CW - Esposite CW - Esposite CW - Construction SPT - Spitaata CW - Ch-cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery	Light Duty	Certification Test Data	based on the test procedure (in Test's seciol 30:32005 with the test number. A unit dest number is required for free set categories. (i) (0) = 3.27,34,34,47 FTP-2.21,12,12,31,35,41,45, (i) (2) = 2.37,34,34,47 FTP-2.21,12,12,31,35,41,45, (i) (2) = 2.37,34,45 (i) (2) = 2.37,45 (i) (2)	Verify	Back End	Pre- existing data		
NEW: GL- 130.2	Test Fuel Category	This field will automatical ly be filled based on the Test Fuel Category (TI- 44) in Test Information)			TRUE	1 per test fuel type	Enu A(3) ati	mer					AEEL = Bectricity CNG = Hatural Gas D = Desel E = Bhand G = Gasolae H = Sylcogen M = U = D = M	Links Date	Test Group	$\begin{array}{l} \textbf{BE ZL} = 6.5 \\ \textbf{CNR} = 1.0, \ 6.1 \\ \textbf{N} = 9, 19 \\ \textbf{R} = 9, 2, 7, 20, 43, 44, 45, 71 \\ \textbf{G} = 1, 6, 7, 8, 22, 23, 24, 28, 26, 27, \\ \textbf{H} \\ \textbf{H} = 50 \\ \textbf{LPG} = 42 \\ \textbf{W} = 31, 32, 23, 34 \end{array}$	Verify	Backen	Pre- existing		
NEW: GL-130.5	Text Scycle Ostegery				TRUE	1n (1 for each Test within each Subconfiguration within each Configuration within each Base Lived within tesh Model Type)		mer					PTP75 = Foderal Test Procedure (75 °T) (FF20 - Foderal Test Procedure (28 °T) US64 = US64 US64 = US64 = US6	Light Duty	Certification Test Data	This field will associately be filled based on the tast processing with the tast analysis of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the destandance of the second of	Verify	Back	Pre- exising data	New LD-R-GL-88121 New LD-R-GL-8812 New LD-R-R-GL-8812 New LD-R-R-GL-8812	NDW: Test 5-Cycle Category (Cd. 136.3) cannot be equal to "Mall" NDW: Test 5-Cycle Category (Cd. 136.3) cannot be equal to "Mall" NDW: First Economy Label Categories Approach (Cd. 75), "EC-CHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO", all other memory atoms (Excleding Mall et and category (Cd. 136.3), "EC-CHO" them Test 5- Cycle Category (Cd. 136.3), "NTV", and "CdHO", and "CdHO" them Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and "CdHO" them Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TEST 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Social Class Read Mallinsion Name (Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Cycle Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Cycle Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Mall Chategory Cd. 137.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3),"Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 146.3),"Test 2-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Test 245,"T, "Test 246.3,", and "TE 246.3"," The TE 246.4"," and

EPA Data Element							Basic	Data Type Descript Min		Total	Enstin								Collection	Cellecti		
Number Fuel Econor	Long Name ny Label Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Iype	ion Length	h Length Pa	attern Digits	I Fraction s al Digits I	<u>Min Value</u>	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	on Point	Collecti on Type	Applicable Business Rules	English validation rules
NEW: GL-130.5	Text 5-Optic Category- Centimed	A valid test number is required for these fuel categories																				NIV: I Test Rust Gasgory (GL-130.2)+"G', "D', "CND" or "LPG" and Rust Economy Label Gilz-Salation Agence In (GL-73)+"G', "D', "CND" or "CS GIO' and Hydri Network (GL-73) and Hydra CH CARACTER (GL-73)-"G', "G', "G', "G', "G', "G', "G', "G',
NEW: GL-130.5	Teat 5-Cycle Category- Continued																					NW, F Test 5 Cycle Category (GL-192.8-1997" Than Test Number (GL-127) must have escatated Test ResultBinksion Nume (TH-19) equation "MRNTE", (Test ResultBinksion Nume() 177 EB0 T, 'TEB0 T, 'TEB0 T, 'ITEB0 T, and 'TEB0 C and rest ResultBinksion Nume (Lincolated Number 2006) (Lincolated Number) and Test ResultBinksion Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) and Test Fall Economy Label Catalation Results (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and an edited Number ResultBinksion Number) (TEB0 T) and TEB0 C and Test Number (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and Test Number (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and Anneed). NWE Test 5 Cycle Category (Lincolated Number (Lincolated Number) TEB0 C T, (Test ResultBinksion Nume (TEB0 C T) Num test Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number (Lincolated Number) TEB0 C T, (Test ResultBinksion Nume (TEB0 C T) Num test Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number) (Lincolated Number) TEB0 C T and Structure (Lincolated Number) (Lincolated Number) Number (Lincolated Number) (Lincolated Number) (Lincolated Number) Number (Lincolated Numbe
GL-131	Analytically-Derived PE / CPE	Is this test E analytically derived?			TRUE	1 (1 for each Test within each Subconfiguration Configuration within each Base Level within each Mödel Type)	A(1) E	Enumer					b b b b b b b b b b b b b b b b b b b	H-No Yes	Light Duty	FE Label	The field eccountry values for this which that represents a sub- configuration were generated by an EPA-approved analytically dense EPA approved analytically dense CPR 400.006(c) and CD-64-00). Notes: 1. of A/DFT muscles no motion than 20% of the subconfiguration of the 20% of the subconfiguration of the Application of the above the page Guided Ta-50 million of above the page Guided Carline datas that del control y a whole million of above noncoti to a whole mpg. T1-12.6	Verify	Back End	Pre- existing data	New LD-FE-GL 89133	NEW: If the Total Road Load Horsepower (RL-122) is greater than the texted vehicles? (PL-Collicities) Total Road Load Horsepower (RL-13), or the Spubsite Tits Weight 130) is greater than the tested vehicles' auto ratio than Analytically Derived FE/ CREE Indicator (RL-131) and the quest to "we".
	Data Substitution Indicator	Enter the applicable Data Substitution Indicator for this test.	FuelEconomyLabelSubmissio n/FuelEconomyLabelDetailsAM dedTypeDetails/RaseLevelDe talis/ConfigurationDetails/TestVehi configurationDetails/TestVehi cleDetails	DataSubstitutionIndicator	TRUE	1.n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1) E	Enumer ation					И	I = No. = Yes	Light Duty			Mir	Front End		LD-TE-GL-88073 New LD-TE-GL-88134 New LD-TE-GL-88135	NOTE the achieved province PEC (CREE) Indiation (co.11)) is equation 'bio' and Total Rand Land Keingsover (EA: 42:18) is the table
GL-133	Averaging Method	Accessing Accessing Method bo hose used if this Test the Next of an assessing group (i.e. subconfigure aton equipped with a multi- mode transmissio n or Shift Indicator Lipph). W T(D)) W T(D)) H = Navessing S = Simple averaging S = Simple averaging S = Simple averaging (Sum(i-1 to n) (FET(0))	FastEconomy, Jakob Sytemissio nifuseEconomy, Jakob Sytemissio odd Type Desisio Based, evelop JakiConfiguratore balls / Test Velv der Desist	Nerzginglætvodtiontifer	TRUE	1n (1 for each Test within each Subconfiguration Configuration within each Base Livel within each Model Type)	A(1) E	Enumer						I-No severaging - Simote averaging (Sum(-1 to n) (FET(i) * 1700) I - Jamonic averaging I/Sum(-1 to n) (FET(i) /VT(0))	Light Duty	FE Label		Mir	Front End	XM4.	しっ年GL-86079 しっ年GL-86089 しっ年GL-86089 しっ年GL-86089 New Lの存GL-87118	If Model Year (GL-3) is greater than or equal to 2011, then 'S' (Simple averaging) is not plowed.

EPA Data Element Number Fuel Econo

-135

-173

NEW GL-173.

-174

420d11003.xls FE Label+



<u>.</u>	PA Data Bement	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Des	kata iype script Min ion Length	Max Length Path	<u>Total</u>	Fraction	Min Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti C	Collecti	Applicable Business Rules	English validation rules
		y Label Information	Description	Farence Name	AME Tay	Reguired	monopicity	TANK	tengan	Lengen. Face		a cogica	min value	max value	Allowed values	mooscry	FIGCESS	Notestadestidits	Striginator.	on roine of	2011302	Applicable Busiliess Roles	English validation rules
PL I	el Econom	y Label Information						_				_											
			Verify table that stores the required offset constant for each model year that is entered by EPA to calculate the highway for derived 5-cycle fuel economy labels. Also used for the Litmus												These are distalase only fields. This is the table used to perform IPA derived 5- cycle label calculations. Any Model Year that			These fields are entered by EPA no more than once par model year (they are not expected to change every year);					
	NEW	Derived 5C Highway Offset	Threshold				1 for each Model Yea	r i							does not have an entry in this table will use the			Table should be initialized with		Back			
	GL-183	Constant	calculation.			TRUE	entry in Verify Table	N(7.6) Der	cimal		7	6	0.000000	9.999999	last prior Model Year's coefficients.	Light Duty	FE Label	2008 Model Year value = 0.001376	Verify	End	EPA		

EPA Data Element Number	Long Name	Description.	Patentia Name.	XML Tag	Required	Ba Di Multiplicity Ty	<u>sic Typ</u> ata Desc pe tion	a. e <u>Min</u> Length Li	Max ength Patt	tern Digit	al Fractio nal ts Digits	<u>Min</u> <u>Max</u> Value Value	Allowed Values.	Industry	Process.	Notes/Questions	Qriginator n.Point	Collection Type	Applicable Business Rules_	Validation Rules.
CR-0.5	Process Code	Select the desired process code for the current submission.	CertificateRequestSubmissionInformationCertificateRequestInformationDet all	RequestProcessCode	TRUE	AI	Enurr (1) ation	ier 1	1				N – New dataset C – Correction of existing – Verify dataset U – Unlock Request L – Lock Request I – Introduction Into Commerce Date Update	Light- Duty	Certification		Manufactu Front rer End	XML	LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR016 LD-CERT-CR-BR017 LD-CERT-CR-BR019	Illocate Commerce Introduction Date), then a Test Group record must be the spates for the same Test Group (CR-4) and E-xpoorsive/Reflueing Family Name (CR-8) and Model Year (CR-5), is equal to T (Update Commerce Introduction Date), then a Test Group record must exist in the system for the same Test Group (CR-4) and Model Year (CR-3), it? Process Code – R* or "Dor "C", a necord must exist if Process Code – R* or "Dor "C", a necord must exist of Verify of the primary key of this modele.
CR-1	Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account.	CertificateRequestSubmissionInformationCertificateRequestInformationDet als/MenufacturerSpecificDetails	EPAManufacturerCode	TRUE	AI	(3) Strin	ig 3	[A.] 3 9]	ZO- [3]				Light Duty	Certification		Front Verify End	XML	LD-CERT-CR-BR019 LD-CERT-CR-BR020a LD-CERT-CR-BR020b LD-CERT-CR-BR020c	CR-BR019: When requesting a Certificate Request report (CR-0.5; Phocess Code) equals TR (Report), a Certificate Request record must axis with the same Test Group (CR-2), Evaporative / Returing Family (CR- 8), Model Y ard (CR-3), and Manufacture Code (CR- CR-BR2). Manufacture Code of the Submission Author Dealis must match the Manufacture Code (CR- 1) of the submitted dataset.
CR-3	Model Year	Enter the applicable model year for this test group.	CertificateRequestSubmissionInformationCertificateRequestInformationDet alb/ManufactureSpecificDetails	ModelYear	TRUE	N	Numi (4) r	5e 4	4			1957 2100		Light Duty	Certification		Manufactu Front rer End	XML	LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR016 LD-CERT-CR-BR019	Liveski Ti Process Lobe (LVK-3) is not equil to 1 (Lydate Commerce introduction Dala), then a Test Group record must exist in the system for the same Test Group (CR-4) and Expostmet/exitualing Family Name (CR-3) and Model Yare (CR-3). CR-BR2: IP rocess Code (CR-4), then a Test Group record must exist in the system for the same Test Group (CR-4) and Model Yare (CR-3).
CR-4	Test Group	Enter the applicable test group name for the Centificate Request.	Certificate Request Submission/Information/Certificate Request Information/Det altiManufacturer Report/LiPatais	TestGroupName	TRUE	A	12) Strir	ig 12	[A-1 NPF 9)(1 2) 9)(4 ([0,] 2) 2) 9)(1 12	1- )[A- D- ,11} [[A- D-				Light Duty	Certification		Manufactu Front rer End	XML	LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR019 LD-CERT-CR-BR021 D-CERT-CR-BR021	Lipitatic commerce introduction Due), then a Test Goody neurod must exist in the system for the same Test Group (CR-4) and GiveportheRelating Family Name (CR-6) and Model Yame (CR-6). Characteristic commerce interaction of the same Test Group (CR-4) and Model Yame (CR-6). Characteristic in the system for the same Test Group (CR-4) and Model Yame (CR-6). ChaRM011: When requesting a Certificate Request mport (CR-6) and Model Yame (CR-6). ChaRM01: Strengther Strengther Yame (CR-6). ChaRM01: When Strengther Yame (CR-6), ChaRM01: The Caracteristic Parameteristic Strengther mport (CR-6). Sprontex (CR-6) and Strengther Test Group (CR-2), Longoniter (Returbing Family (CR- 6), Model Yame (CR-3), and Manntactume Code (CR-1) and Exponentive Returbing Family (CR-6) combination. See 22: An Application for Certification Committee Test Test 22: An Application of Code (Transform Family New Stem submitted for this Engine Family.
CR-5	Evaporative/Refueling Family Name	Enter the applicable evaporative/refueling family name for this Certificate Request.	CertificateRequestSubmissionNormation/CertificateRequestInformatonDet alloManufacturerSperdicDetata	EvaporativeRefuelingFamilyN ame	FALSE	A	12) Strin	ıg 12	(A-I NP TV- 9)(1 2) 9)(4 9)(4 2) 21 21 21 21	PR- -Y1- )[A- 0- -)[0- -)[A- 0-				Light Duty	Certification		Manufactu Front rer End	XML	LD-CERT-CR-8R001 LD-CERT-CR-8R019 LD-CERT-CR-8R019	CR-BR1: If Process Code (CR-0.5) is not equal to 'T (Update Commerce Introduction Date), then a Test Group record must call in the system for the same Test Conce (CR-0) and Environment Relativity Family CR-BR019: When requesting 3 confliction Request report (CR-0.5) Process Code) equals 'F (Report), a Centralea Request coord must easi with the same Test Conce (CR-0). Environment Relativity Family (CR- CR-BR019: When request the 3 confliction CR-BR019) conflictate Request coord must easi with the same Test Conce (CR-0). Environment (Relativity Family (CR- CR-BR019) in the same Concept the test act Concept (CR-0) and Environment Vertication (CR-0) combination with Same Test Concept the test act Concept (CR-0) and Environment Vertication (CR-0) combination throws failed tests.
C8-7	Commerce Introduction	Enter the date this Test Group will be nettered into	ConficateRequestBubmistionHormationCentificateRequestInformationDet	CommercelatorduriceDate	FAI SE		Dat (YYY MD	YM	[1 2](1 9](3 1](1 9](1 3](1 9]	){0- ){0- ){0-				Light	Certification	Is this being moved to Testorum Info?	Manufactu Front	XM	LD-CERT-CR-BR011	Links and basis used basis served to Tartingsong Mole, Barn- the regulated selements can do (CR-40), P. 11, S. C. CR-88111: B. Process Code (CR-40) is equal to T (Update Commerce Introduction Date) from Commerce Introduction Date (CR-7) is required. Ref 2: B. Process Code (CR-40) is equal to Y (New) or 'L' (CR-6) (Final Commerce Introduction Date (CR-7) and An equation State (CR-7) and CR-80 (CR-7) Statem An equation Statements Inductor (CR-10), GR-A1 Market An equation Statements Inductor (CR-10), GR-A1 System Approval Indicater (CR-11), CARB Execution Date Insular (Indicater (CR-11), CARB Execution CR-100, CR-100, CR
	Merr All Applicable	Do al fine tested vehicles ment al the applicable	Certificase Request Submission/Normatoury Certificase Request shormatour Det	MeetAllApplicableStandardain			Enur	1/	-71				Y - Yes	Light			Manufactu Front		LD-CERT-CR-BR012	Requirements in the second sec
CR-9	Standards Indicator	etandardin?	aku/apolication@peolidDetals	dicator "	FALSE		atio	n					N = No	Duty	Certification		rer End	XML	LD-CERT-CR-8R018	Required when process code (CR-0.9) = N or 1: C: CR-BH2: B Process Code (CR-0.9) is expand to N More AP Applicable Requirements for the CR-0.9 More AP Applicable Requirements Indicator (CR-10). More AP Applicable Requirements Indicator (CR-10). DDD System Approval Indicator (CR-11), CABB Executive Order Issued Indicator (CR-11), CR-0.9 (CR-0.9200) Conditional Central (CR-10), DR-0.9 Converter Indicator (CR-10), and Alternae Fuel Converter Indicator (CR-10), and Alternae Fuel Converter Indicator (CR-10), OBD System Approval Standards Indicator (CR-10), OBD System Approval Requirements Indicator (CR-10), OBD System Approval
CR-10	Meet All Applicable Requirements Indicator	group/evaporative family comply with all the applicable requirements of 40 CFR Parts 85 and 86?	CertificateRequestSubmissionInformation/CertificateRequestInformationDet alls/ApplicationSpecificDetails	MeetAllApplicableRequiremen tsIndicator	FALSE		Enum	ier n					Y = Yes N = No	Light Duty	Certification		Manufactu Front rer End	XML	LD-CERT-CR-BR012 LD-CERT-CR-BR018	Indicator (CR-11), ORVR System Approval Indicator (CR-14), Compliance Fee Paid Indicator (CR-15), or No Defeat Device Indicator (CR-16) is equal to 'N' (No).

EPA Data Element	Long Name	Description.	Parent's Name	XML Tag	Required.	Multiplicity	Basic Data Type	Data Type Descrip	<u>Min Max</u> ngth Lengt	t. h. Pattern	Total Digits	Tractio nal Min Digits Value	<u>Max</u> Value	Allowed Values	Industry	Process.	Notes/Questions	Originator	Collectio n Point	Collection Type	Applicable Business Rules	Validation Roles.
CR-11	OBD System Approval Indicator	Has the QBD system for this been approved by EPA or CABP?	CertificateRequesSubmissionHomationCertificateRequestInformationDet	OBDSystemApprovalitedicator	FALSE		e	Enumer						Y - Yes N - No	Light Duty	Certification		Manufactu rer	Front End	XML	LD-CERT-CR-BR012 LD-CERT-CR-BR012	Required when process code (CR-0.5) = V or 1: C: CR-0R12: IP Process Code (CR-0.5) = equal to V (CR-7). Net Al Applicable Standards Indicate (CR-0) (CR-7). Net Al Applicable Standards Indicate (CR-7). Net Al Applicable Standards Indicate (CR-7). Net Al Applicable Standards Indicate Constraint Indicate (CR-10). And Amana Fuel Constraint Indicate (CR-10). And Amana Fuel Constraint Indicate (CR-10). Applicable Standards Indicate (CR-10). Applicable Standards Indicate (CR-10). CR-100. Indicate Indicater (CR-11). CR48 Standard Applicable Indicater (CR-11). CR48 Standard Applicable Indicater (CR-11). CR48 Standards Out Indicater Indicater (CR-11). CR48 Standards Out Indicater Indicater (CR-10). CR48 Standards Out Indicater Outpies Indicater (CR-10). Standards Indicater Indicater (CR-10). CR49. Standard Applicable Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-10). CR49. Standard Applicable Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-1
CR-12	GARE Executive Order	If this a California only Test Group have you received the scatter of a CARE security	Conficuti Repart Duminiscin Internation Centificate Reparatinformation Dat all/ApplicationSpecific Data	CARBE secosite/Order/sauedin	FALSE		E	Enumer						V - Yes N - No N - Not Appicable	Light	Certification	If "NA" is solected. Verify should then it as a "Yes" are certificate in the being issued.	Manufactu rer	Front	XML	LD-CERT-CR-89012 LD-CERT-CR-89012	Required when process code (CR-0.5) = Y or 1' C'. CR-R812: IP Process Code (CR-0.5) a equal to Y Meyor or 1', Code Mine Common Individual Charles (Meyor or 1', Code Mine Common Individual Charles (Meyor or 1', Code Mine Common Individual Charles) Meyor Al Applicable Requirements Indicator (CR-10), DB System Approximational Indiator (CR-11), CAR8 Executive Order Issued Indiator (CR-11), CAR8 Executive Order (CR-11), and Alternate Fuel Common Indiator (CR-11), and Alternate Fuel Common Indiator (CR-11), and Alternate Fuel Indiator (CR-11), CR48 Esencitive Order Issued Indiator (CR-11), CR48 Spann Approximal Indiator (CR-14), Compliance Fach Indiator (CR-13), or 1V (India
CR-13	CARB Executive Order	If yes, what is the executive	CertificateRequestSubmissionInformation/CertificateRequestInformationDet als/ApplicationSpecificDetails	CARBExecutiveOrderNumber	FALSE										Light Duty			Manufactu rer	Front End	XML	LD-CERT-CR-BR015	Required if the answer to Question 4 (CR-12) is yes. CR-BR15: If CARB Executive Order Issued Indicator (CR-12) is equal to '' (Yes) then CARB Executive Order Number (CR-13) is required.
CR-14	ORVR System Approval	Inder number?	CertificateRequesSubmissionInformationCertificateRequestInformationDet abl/depicationQeertificAteRequestInformationDet	ORVRSystemApprovalIndicato	FALSE		E	Enumer						Y - Yes N - No	Light Duty	Certification		Manufactu	Front End	XML	LD-CERT-CR-BR012 LD-CERT-CR-BR012	Taggenet when process code (CR-0.5) = V to 11 C- CR-081712: IP Decode Code (CR-0.5) e equal to 1V (Rev) or 11, Lock) here Commerce Introduction Date (CR-7), Meer Al Architection Standards Inducery (CR-8), ODD Ospatem Approval Indicator (CR-11), CAR8 Executive Order team Indicator (CR-14), CAR9 And Indicator (CR-16), Compliance Tee All Indicator (CR-16), And Allemant Fuel Constrained Indicator (CR-10), CAR9 And Indicator (CR-16), and Allemant Fuel Constrained Indicator (CR-10), And Allemant Fuel Candidator Indicator (CR-10), And Allemant Fuel Candidator Indicator (CR-10), And Black (CR-10), And Blacker Indicator (CR-10), And Black (CR-10), And Blacker Indicator (CR-10), And Blacker Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater (CR-10), CR-100, CR-100, CR-140, Compliance Fes Fairl Indicator (CR-110), CR-100, CR-100, CR-1
CR-15	Compliance Fee Paid	Has the full amount of the applicable certification fees been paid for this test group?	CertificateReguetSubmissionInformationCertificateReguestInformationDet abu/kgs/certorQeordinZeata	ComplianceFeePaidIndicator	FallSE		8	Enumer						Y - Yes N = No	Light Duty	Certification		Manufactu	Front End	XML	LD-CERT-CR-8R012 LD-CERT-CR-8R018	Register alson process code (CR 0.8) and y to the C- CRRRTE. Brocks Code (CR 0.0) as easily to W Revol or 'L' (Lock) frem Commons Introduction Date (CR 7), Meet Al Applicable Standards Introductor (CR 9), Meet Al Applicable Requirements Indicator (CR 7), Date Standards (CR 7), Date Standards (CR 7), All CR 2), Standard (CR 7), Date Standard System Approval Indicator (CR 1-10), CARB Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-11), CR 10, Bard Indicator (CR 1- CR 8), CR 1-10, CR
CR-16	No Defeat Device Indicate	Are the vehicles covered by this test group/exponative family free of defast devices and statelige?	CertificateRequestSubmissionInformationCertificateRequestInformationDet ablufuptionatorQeutInformation	NoDefeatDeviceIndicator	FALSE		E	Enumer						V - Yas N = №	Light Duty	Certification		Manufactu	Front End	XML	LD-CERT-CR-8R012 LD-CERT-CR-8R018	Request when process code (RR.0.9) – V et 1'-CC CRRRTE: Proceed Code (RR.0.9) – equal to 1' (Rev) or 1'. Local) ten Commerce Introduction Date (Rev) and 1'. Local) ten Commerce Introduction Date (Rev) And All Applicable Requirements Inductor (RR-0), Marc Al Applicable Requirements Inductor (RR-10), Marc Al Applicable Requirements Inductor (RR-10), Resolver Ded tendent Inductor (RR-10), Compliance Fee Band Inductor (RR-10), No Detest Douber Inductor (RR-10), Band Inductor (RR-10), No Detest Douber Inductor (RR-10), CAPODO Conditional Committee (RR-17), ICI Commerter Inductor (RR-19), and engined and Cambries Inductor (RR-10), CR-19), and engined and enginedin All-work (RR-11), RR-10, RR-
CR-22	GHG Pre-Model Year Report Indicator	Has the green house gas pre model year report been submitted to EPA for this model yearand does it meet all requirements 40 CFR 600.514?	CertificateReguestSubmits ioninformation/CertificateRequestInformation DatabackgptcationSpecificDataba	PreModelYearReportIndicato r	FALSE		8	Enumer ation						Y = Yes N = No	Light Duty	Certification		Manufact urer	Front End	XML	LD-CERT-CR-BR024	CR-8R24: If Process Code (CR-0.5) is equal to 'N' (Nev) or 'L' (Lock) and Model Year (CR-0) is obtained of the CR-22) is required, otherwise not allowed Required when Model Year >= 2012

Data

420d11003.xls CR+

EPA.

Eler Nun	2A. ta_ tent bor Long Name tificate Request Information	Description.	Parent's Name.	XML Tag	Required.	Multiplicity	Basic T Data De Type 1	<u>ion Let</u>	<u>Ain Max</u> ngth Length	h Pattern D	Total <u>Fra</u> Digits Di	actio Ial <u>Min</u> gits Valu	<u>Max</u> e <u>Value</u>	Allowed Values	Industry	Process.	Notes/Questio	<u>15.</u> Ωrigina	Collection	Collection Type	Applicable Business Rules	Validation Rules.
CR	CAP2000 Conditional 17 Certificate	Does this test group and evaporative family need a CAP 2000 conditional certificate because EPA confirmatory testing is pending (i.e., a test has been scheduled with EPA but has not occurred at the time a certificate is being requested?	CertificateRequestSubmissionHomation/CertificateRequestInformation/Der alti/ApplicationSpacificDeats	CAP2000ConditionalIndicator	FALSE			umer						Y – Yes N – No	Light Duty	Certification		Manuf		XML	LD-CERT-CR-BR012	Regarded when process code (CR-0.9) = Y or 1' C CR-0.81:12 = Phoness Code (CR-0.9) = equal to Y CR-0.81:12 = Phoness Code (CR-0.9) = equal to Y Meet Al Applicable Regardements Inclassor (CR-10). Meet Al Applicable Regardements Inclassor (CR-10). Meet Al Applicable Regardements Inclassor (CR-10). CR-0.90: Applicable Regardements Inclassor (CR-10). CR-0.90: Applicable Regardements Inclassor (CR-10). Baytern Approval Inclassor (CR-11). CR-10 Baytern Approval Inclassor (CR-10). CR-10 CR-100: CR-100: CR-
CR	Independent Commercial 18 Importer Certificate	Is this an Independent Commercial Importer (ICI) certificate?	CertificateRequesSubmissionHomationCertificateRequestInformationDet abli/ApplicationSpacificDetats	ICICertificateIndicator	FALSE			umer						Y = Yes N = No	Light Duty	Certification		Manuf. rer		XML	LD-CERT-CR-BR012	Regulard when process code (CR-0.8) = Y or 1' C CAR-Bit 12 Finances Code (CR-0.6) is equal to Y CR-0.7 Meet AI Applicable Standard Indexion (CR-0) Meet AI Applicable Requirements Indicator (CR-10). All CR-0.7 Meet AI Applicable Standard Indexion (CR-10). Set 20 System Approval Indicator (CR-11). CR-0.7 Meet AI Applicable Standard Indexion (CR-10). System Approval Indicator (CR-11). System Approval Indicator (CR-10). Set Indicator (CR-10). No Meeta Davies Indicator (CR- contract Indicator (CR-10). and Alummas Fuel Contract Indicator (CR-10). and Alummas Fuel Contract Indicator (CR-10). and Alummas Fuel
CR	Alternate Fuel Converter 19 Certificate Certificate Locking	Is this an alternative fuel converter certificate?	CertificateRepartSubmissionInternationCertificateRepartInformationDet alt/ApplicateRepartInformationCertificateRepartInformationDet alt/ApplicateRepartInformationCertificateRepartInformationDet	AlternateFuelConverterCertific ateIndicator	FALSE		En	umer						Y – Yes N – No	Light Duty Light	Certification		Manuf rer Manuf		XML	LD-CERT-CR-BR012	Required when process code (CR-0.5) = N or 11 <sup>•</sup> C. CR-88112; II Process Code (CR-0.5) is equal to N (Rev) or U (Lock) the Commerce Introduction bate (CR-7), New IA Applicable Standards Indicator (CR-1), CR-7), New IA Applicable Standards Indicator (CR-10, CR-7), New IA Applicable Standards (CR-10, CR-10, Standards (CR-11), No Defatt October 10, CR-10, Standards (CR-11), No Defatt October 10, CR-10, CR-10, CR-2000 Control Certificate (CR-11), CR- Centribute Indicator (CR-11), CR-10, Normatin CR-10, CR-2000 Control Certificate (CR-11), CR- Centribute Indicator (CR-11), and Applicator Feed CR-10, Normatin CR-10, CR-10, Normatin CR-10, Norm
CR	20 Comment	certificate locking request.	CertificateRequestSubmissionInformation/CertificateRequestInformationDet	LockCommentText	FALSE		A(1000) SI	tring umer	1 1000			+	-	Y = Yes		Certification		Manuf	End	XML	LD-CERT-CR-BR013	
CR	21 Revised Certificate?	needed?	alls/ApplicationSpecificDetails	RevisedCertificateIndicator	FALSE			tion						N = No	Duty	Certification		rer	End	XML	LD-CERT-CR-BR017	Required is Process Code = 'L'

		-	-			1				1	1	1									1		I	
Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																				
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplic ity	Basic Data Type	Data Type Descripti on	Min Length	Max_	Pattern	<u>Total</u> Digits	Fraction	<u>Min</u> Value	<u>Max</u> Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collecti	Collection	Applicable Business Rules	English validation rules
	New dataset for "Roadload Information". This will enter another 12 fields and Verify will calcu							•																
	will enter another 12 fields and Verify will calcu	ılate 2 fields.		1		1			r	1	r	r					1	1	[	1	T		[	If Process Code = "R" or
NEW RL-1	Process Code	Select the desired process code for the current road load entry submission.	RoadLoadDataSubmiss on/RoadLoadDetails	i InformationProcessCo de	TRUE	1 per Road Load	A(1)	Enumerat ion	:							N = New dataset C = Correction of existing Verify dataset	Light Duty	Road Load		Manufacture	Front r End	XML	New LD-FE-RL-BR001	"D" or "C", a record must exist in Verify for the primary key of this module.
NEW RL-1.5	Road Load Index	The Verify-assigned unique index number for this road load submission.	RoadLoadDataSubmiss on/RoadLoadDetails	i RoadLoadIndexNumbe r	TRUE	1 per Road Load	N(5)	Integer						1	99999		Light Duty	Road Load		Verify	Front End	XML		
PL-1.6	Model Year	Enter the model year for this road load entry.	RoadLoadDataSubmiss on/RoadLoadDetails	i ModelYear	TRUE	1 per Road Load	N(4)	Integer									Light	Road Load		Manufacture	Front r End	XML	New LD-FE-RL-BR002	
NEW		Enter the Manufacturer- assigned index number for the model type for	RoadLoadDataSubmiss	i ModelTypeIndexNumb		1 per Road Load		integer									Light	Road			Front			Model Type Index + Mfr Code + Model Year must not exist-for process code (GL 0.5) = 'N', otherwise, must exist for other.
RL-2	FE Label Model Type Index	this road load entry.	on/RoadLoadDetails	er	TRUE	Load	N(3)	Integer						1	999		Duty	Load		Manufacture	r End	XML	New LD-FE-RL-BR002	process codes.
NEW RL-3	FE Label Subconfiguration Index	For this set of road load horsepower data, enter the applicable FE label subconfiguration index subconfiguration was used in an FE label, otherwise leave this field blank (the subconfiguration will be used in a future GHG/CAFE dataset.	RoadLoadDataSubmiss on/RoadLoadDetails	l SubConfigurationInde xNumber	FALSE	1 per Road Load	N(2)	Integer				2		1	99		Light Duty	Road Load		Manufacture	Front r End	XML	New LD-FE-RL-BR003	FE Label Subconfiguration Index is only required if roadload information is being provided for an existing subconfiguration that was used in FE label.
											[1- 2]{1}[0- 9]{3}[0- 1]{1}[0-													
NEW RL-3.5	Release Date	The date this model type information can be released to the public.	FuelEconomyLabelSub mission/FuelEconomyL abelDetails	ReleaseDate	TRUE	1 per Road Load		Date (YYYYMM DD)	I		9]{1}[0- 3]{1}[0- 9]/1]						Light	Road Load	GL-176	Verify	Back End	Pre-		
NEW RL-4	Test Group	Enter the applicable test group name for this road load entry.	RoadLoadDataSubmiss on/RoadLoadDetails		TRUE	1n per Road Load	A(12)	String	12	12	51(1)						Light	Road	GL-126	Verify or Manufacture	Back End or Front r End	Pre- existing or XML	GL-BR34	TestGroup must have- already been certified.
NEW RL-5	Engine Code	Enter the applicable engine code assigned by the manufacturer for this road load entry.	RoadLoadDataSubmiss on/RoadLoadDetails	i EngineCodeText	TRUE	1 per Road Load	A(14)	String	1	14							Light Duty	Road Load	GL-119	Verify or Manufacture	Back End or Front r End	Pre- existing or XML		
NEW RL-5.1	Equivalent Engine Code(s)	Enter all applicable equivalent engine codes for the engine code for this road load entry.	RoadLoadDataSubmiss on/RoadLoadDetails	i EquivalentEngineCod	TRUE	1n per Engine Code per Road Load	A(14)	String	1	14							Light Duty	Road Load		Manufacture	Front r End	XML		
NEW RL-6	In-Use Engine Code Decoder	Enter a description of the engine code for this road load entry that distinguishes it from similar engine codes per 600.512-12(c)(11).		i InUseEngineCodeDes	TRUE	1 per Road Load	A(500)	String	1	500							Light Duty	Road Load		Manufacture	Front r End	XML		
NEW RL-7	Displacement	Enter the applicable engine displacement in liters for this road load entry. In Liters.	RoadLoadDataSubmiss on/RoadLoadDetails	i EngineDisplacementV	TRUE	1 per Road	N(5.3)	Decimal				5	3	0.001	99 999		Light Duty	Road Load	GL-26 (TG-38)	Verify or Manufacture	Back End or Front r End	Pre- existing or XML		
NEW RL-8	Carline Manufacturer Code	Enter the applicable manufacturer code for this road load entry.	TBD	EPAManufacturerCod	TRUE	1 per Road Load	N(5,3)	String	3	3	[A-Z0- 9]{3}	,	3	0.001	38.899		Light	Road	GL-26 (1G-38) GL-125.5	Verify	Back End	Pre- existing	GL-BR59 (same as- GL-BR44 for new data element)	
NEW RL-9	Carline Division Code	Enter the applicable manufacturer code for this road load entry.	твр	ManufacturerDivision Code	TRUE	1 per Road Load	N(2)	Integer	1	2	-10)			1	99		Light Duty	Road	GL-125.6	Verify	Back End	Pre- existing	GL-BR60 (same as- GL-BR46 for new data element)	
			-		-		-		-		-	-		-		-	-	-		-	-			

NEW RL-9.1		Enter the applicable manufacturer code for		ManufacturerDivision	TRUE	1 per Road										Light Duty	Road Load	Pulled in from Division table using Division Code		Back End	Pre-	GL-BR60 (same as- GL-BR46 for new data element)	
NEW RL-10		this road load entry. Enter the applicable manufacturer code for this road load entry.	TBD	Code CarlineCode	TRUE	Load 1 per Road Load	N(2)	Integer	1	2			1	99		Light Duty	Load Road Load	table using Division Code GL-125.7	Verify Verify	End Back End	Pre- existing	GL-BR61 (same as- GL-BR47)	
NEW	Carline Code	Enter the applicable manufacturer code for this road entry.	TBD	CarlineCode	TRUE	1 per Road Load	N(3)	Integer	-	3			1	999		Light Duty	Road	GL-125.7 CL-6	Verify	Back	Pre- existing	GL-BR61 (same as- GL-BR67)	
NEW		Enter the applicable drive system for this				1 per Road		Enumerat							4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P= Part-time 4-wheel drive	Light	Road			Back	Pre-		
RL-11	Drive system	road load entry.	TBD	TestDriveCode	TRUE	Load	A(1)	ion							A = All wheel drive	Duty	Load	GL-72	Verify	End	existing		
															A = Automated Manual AM = Automated Manual SA = Semi-Automatic CVT= Continuously Variable SCV=Selectable								
NEW RL-12	Transmission Type	Enter the transmission type for this road load entry.	TBD	LightDutyTransmissio nTypeldentifier	TRUE	1 per Road Load	A(3)	Enumerat ion							Continuously Variable (e.g. CVT with paddles) OT = Other	Light Duty	Road Load	GL-67	Verify	Back End	Pre- existing	VI-BR23	
		The number of transmission gears on this road load entry. If this vehicle is equipped with a "transmission type" of "CVT", enter				1 per										i							
NEW RL-13	Number of Transmission Gears	"1" for the number of gears.	TBD	TransmissionGearCou nt	TRUE	Road	N(2)	Integer					1	99		Light Duty	Road Load	GL-71	Verify	Back End	Pre- existing	VI-BR24	If VI-36 - CVT, then VI-40 - 4.
NEW RL-14	Transmission as listed in the FE Guide	Verify-determined Transmission Class for this read load entry based on the values for Transmission Type and Number of Transmission Gears.	TBD	TBD	TRUE	1 per Road Load	A(12)	Enumerat							Determined by Verify from GL-67 (framsmission Type) and GL-71 (rotal number of Transmission Gears) as follows: If GL-67 is: Aa = "Auto(AAX)" AM = "Auto(AAX)" AM = "Auto(AAX)" GA = "Auto(AAX)" GA = "Auto(AX)" GA = "Auto(AX	Light Duty	Road Load		Verify	Back End Back	Pre- existing		
NEW RL-15	Axle Ratio	Enter the axle ratio for this test vehicle road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails	AxleRatioValue	TRUE	1 per Road Load	N(3,2)	Decimal			3	2	0.00	9.99		Light Duty	Road Load	GL-120	Verify or Manufacturer	End or Front End	Pre- existing or XML		
NEW RL-16	Rim and tire size	Enter the standard tire/rim size description as imprinted on the side wall of the tire for this road load entry	RoadLoadDataSubmissi on/RoadLoadDetails	RimAndTireSizeDescr iptionText	TRUE	1 per Road Load	A(20)	String	1	20						Light Duty	Road Load		Manufacturer	Front End	XML		
NEW RL-17	Tire Type	Select the applicable tire type for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails	TireTypeldentifier	TRUE	1 per Road Load	A(3)	Enumerat ion							-ALS = All Season -AT = All Terrain -HPR = High Performance -LRR = Low Rolling Resistance -RF = Run Flat	Light Duty	Road Load		Manufacturer	Front End	XML		
NEW RL-18		Enter the tire manufacturer for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails	TireManufacturerNam	TRUE	1 per Road Load	A(25)	String	1	25						Light Duty	Road		Manufacturer	Front	XML		
NEW RL-19		Enter the applicable N/V ratio for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails		TRUE	1 per Road Load	N(4,1)	Decimal					0.0	000.0		Light Duty	Road Load		Manufacturer	Front End	XMI		

		Enter the curb weight in pounds for this road load entry. Curb weight is defined as the actual or mfr's estimated weight of the vehicle in operational status with all standard equipment and weight of fuel at nominal tank capacity and the weight of																				
NEW RL-20	Curb Weight	optional equipment computed in accordance with CFR86.082-24.	RoadLoadDataSubmissi on/RoadLoadDetails	CurbWeightValue	TRUE	1 per Road Load	N(5)	Integer				0	14000		Light- Duty	Road Load		Manufacturer	Front end	XML		
NEW RL-21		Select the ETW, equivalent test weight, in pounds for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails	EquivalentTestWeight Value	TRUE	1 per Road Load	N(5)	Integer / Enumerat ion				0	14000	1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750,	Light Duty	Road Load	GL-123	Verify or Manufacturer	Back End or Front End	Pre- existing or XML	VI-BR19	¥430 > ¥429
NEW RL-22	Manufacturer-Calculated Total Road Load Horsepower	Enter the total road load horsepower at 50 mph (TRLHP50) for this subconfiguration.	RoadLoadDataSubmissi on/RoadLoadDetails		TRUE	1 per Road Load	N(3,1)	Decimal		3	1	0	99.9		Light Duty	Road	GL-122	Verify or Manufacturer	Back End or Front End	Pre- existing or XML	New LD-FE-RL-BR004	
NEW RL-23	Verify-Calculated Total Road Load Horsepower	The total road load horsepower at 50 mph (TRLHP50) as calculated by Verify for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails/EP AGeneratedDataDetails	TotalRoadLoadHorsep	TRUE	1 per Road Load	N(3,1)	Decimal		3	1	0	99.9		Light Duty	Road Load	Calculation = (a+50°b+2500°c)/7.5	Verify	Back End	Assigned	New LD-FE-RL-BR004	Manufacturer-calculated TRLHP must equal the EPA-calculated TRLHP after both have been rounded to 0.1
NEW RL-24	Target Coefficient A (F0) (lbf)	Enter the target A-term coefficient from test track force vs. velocity equation for this road load entry. (lbf)	RoadLoadDataSubmissi on/RoadLoadDetails		TRUE	1 per Road Load	N(6,3)	Decimal		6	3	-1000	999.999		Light Duty	Road Load		Manufacturer	Front End	XML		
NEW RL-25	Target Coefficient B (F1) (lbf/mph)	Enter the target B-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph)	RoadLoadDataSubmissi on/RoadLoadDetails	TargetCoefficientBVal ue	TRUE	1 per Road Load	N(6,5)	Decimal		6	5	-10	9.99999		Light Duty	Road Load		Manufacturer	Front End	XML		
NEW RL-26	Target Coefficient C (F2) (lbf/mph**2)	Enter the target C-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph*2)	RoadLoadDataSubmissi on/RoadLoadDetails	TargetCoefficientCVal ue	TRUE	1 per Road Load	N(7,6)	Decimal		7	6	-10	10		Light Duty	Road Load		Manufacturer	Front End	XML		
NEW RL-27	Road Load Determination Method	Select the applicable road load determination method for this road load entry.	RoadLoadDataSubmissi on/RoadLoadDetails		TRUE	1 per Road Load	A(10)	Enumerat						-Calculated (Vehicle not coasted down on track) -Measured (Actual vehicle coasted down on track)	Light Duty	Road Load		Manufacturer	Front End	XML		

#### United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

Date	2011-May-13			1					,,									1						
Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																				
EPA Data							Basic	Data Type															Applicable	
Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplic ity	Data Type	Descript ion	<u>Min</u> Length	Max Length	Pattern	Total Digits	Fraction al Digits	<u>Min Value</u>	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originat or		Collecti on Type	Business Rules	English validation rules
This new	tootprint dataset will be requir	ed for trucks beginning with mo	odel year 2010 and for cars	s beginning with mod	iei year 2011.	· · · · ·												-						
NEW FT-0.5	Process Code	Select the desired process code for the current footprint entry submission.	FootprintDataSubmission /FootprintDataDetails	InformationProces sCode	TRUE	1 per footprint submiss ion	A(1)	Enumer ation								N = New dataset C = Correction of existing Verify dataset	Light Duty	Footprin t		Manufac turer	Front End	XML	TBD	
NEW FT-1	Carline Manufacturer Code	Enter the 3-character alphanumeric code assigned by EPA to each manufacturer for the carline for which footprint information is being submitted.	FootprintDataSubmission /FootprintDataDetails	EPAManufacturer Code	TRUE	1 per footprint submiss ion	A(3)	Fixed	3	3	[A-Z0- 9](3)						Light	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer	Front	XML		
NEW FT-2	Model Year	Enter the applicable model year for this carline for which footprint information is being submitted.	FootprintDataSubmission /FootprintDataDetails	ModelYear	TRUE	1 per footprint submiss ion	N(4)	Integer						1957	2100		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer	Front End	XML		
NEW FT-3	Division Code	Enter the applicable division for this carline for which footprint information is being submitted.	FootprintDataSubmission /FootprintDataDetails	ManufacturerDivis ionCode	TRUE	1 per footprint submiss ion	N(2)	Integer						1	99		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer	Front End	XML		
NEW FT-4	CarLine Code	Enter the applicable carline code (assigned by the manufacturer) for this carline for which footprint information is being submitted.	FootprintDataSubmission /FootprintDataDetails	CarlineCode	TRUE	1 per footprint submiss ion	N(3)	Integer						1	999		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer	Front End	XML		
NEW FT-5	Footprint Index	Verify-generated footprint index assigned to each footprint within a carline.	FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	FootprintIndexNu mber	TRUE	1n for each footprint submiss ion	N(2)	Integer				2	0	1	99		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) For web screens, Verify should automatically increment the index when mfr chooses to add another footprint. For batch, does the mfr need to enter?		Front End	XML		
NEW FT-6	Footprint Description	Enter the manufacturer's model type and footprint description (e.g. "super cab, 4WD, long bed, Dooley"; "super cab, 2WD, short bed", etc.). Repeat for each footprint within this carline.	FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	ModelTypeFootpri ntDescriptionText	TRUE	1 per footprint index per footprint submiss ion	A(300)	String	1	300							Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer/Ve rify	Front End/Bac k End			
NEW FT-7	Wheel base (inches)	Enter the wheel base of this footprint for this carline measured in inches and rounded to one tenth of an inch.	FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	WheelBaseValue	TRUE	1 per footprint index per footprint submiss ion	N(5,1)	Decimal				5	1	0.1	9999.9		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac	Front End/Bac k End	XML/Pre- existing		
NEW FT-8	Front Track Width (inches)	Enter the front track width of this footprint for this carline measured in inches and rounded to one tenth of an inch.	FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	FrontTrackWidthV alue	TRUE	1 per footprint index per footprint submiss ion	N(4,1)	Decimal				4	1	0.1	999.9		Light Duty		These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac turer/Ve	Front End/Bac k End			
NEW FT-9	Rear Track Width (inches)		FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	RearTrackWidthVa lue	TRUE	1 per footprint index per footprint submiss ion	N(4,1)	Decimal				4	1	0.1	999.9		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac	Front End/Bac k End			
NEW FT-10	Manufacturer-Calculated Footprint Rounded to One Decimal Place (square feet)		FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails	FootprintAreaMea sure	TRUE	1 per footprint index per footprint submiss ion	N(4,1)	Decimal				4	1	0.1	999.9		Light Duty	Footprin t	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufac	Front End/Bac k End			

																	Verify should calculate the footprint and display it on the				
																	front end using the following equation:				
																	Footprint = (((Front Track Width (GL-106.7) + Rear Track Width (GL-				
																	106.8)) / 2) * Wheelbase (GL- 106.6)) / 144 rounded to one tenth				
						1 per											of a square foot using ASTM rounding procedures.				
		The Verify-calculated area of	FootprintDataSubmission			footprint index											The result should then be stored on the back end.				
	EPA-Calculated Footprint	this footprint for this carline according to the footprint	/FootprintDataDetails/EP AGeneratedDataDetails/E	For the late of the late		per footprint									1.1-1-1	Frankrik	Any changes to GL-106.7, GL- 106.8, or GL-106.6 should trigger		Death		
NEW FT-11	Rounded to One Decimal Place (square feet)	definition specified in 49 CFR 523.2.	PAGeneratedFootprintDet ails	1DecimalValue	TRUE	ion	N(4,1)	Decimal			4	1	0.1	999.9	Light Duty	Footprin t	a recalculation of this value.	Verify	Back End	Assigne d	 
						1 per footprint															
		The Verify-calculated absolute value of the	FootprintDataSubmission /FootprintDataDetails/EP			index per															
NEW	Discrepancy of Manufacturer and EPA-Calculated Footprint	discrepancy of the manufacturer and EPA- calculated footprint.	AGeneratedDataDetails/E PAGeneratedFootprintDet	FootprintManufact urerDiscrepancyV	TRUE	footprint submiss ion	N(4.1)	Desimal					0	999.9	Light Duty	Footprin		Verify	Back End	Assigne d	
F1-12		calculated tootprint.	dilb	alue	TRUE	1 per	N(4,1) L	Jecimai			-		0	333.3	Duty			Verity	Elia	u	 
		Enter the manufacturer-				footprint index															
	Manufacturer Footprint Target FE Value Rounded to Two	calculated target fuel economy value (in miles per	FootprintDataSubmission			per footprint															
NEW FT-13	Decimal Places (miles per gallon)	gallon) of this footprint for this model type.	/FootprintDataDetails/Foo tprintIndexDetails	IargetMilesPerGal IonValue	TRUE	ion	N(5,2)	Decimal			5	2	0.01	999.99	Light Duty	t		Mfr	Front End	XML	 
																	See separate FE calculation tab for the equation as well as the table of required coefficients				
						1 per footprint											(Section 533.3, Table V – Parameters for the Reformed				
			FootprintDataSubmission /FootprintDataDetails/EP	For the destruction of For		index per											CAFE FE Targets) by model year. This table should be modifiable by EPA.				
NEW FT-14	EPA Footprint Target FE Value Rounded to Two Decimal Places (miles per gallon)	fuel economy value (in miles per gallon) of this footprint.	PAGeneratedFootprintDet ails	FootprintTargetFu elEconomyRounde d2DecimalValue	TRUE	submiss	N(5,2)	Decimal			5	2	0.01	999.99	Light Duty	Footprin t	EFA.	Verify	Back End	Assigne d	
						1 per															
			FootprintDataSubmission			footprint index															
NEW	Footprint Target FE	The EPA-calculated absolute value of the discrepancy between the manufacturer	/FootprintDataDetails/EP AGeneratedDataDetails/E PAGeneratedFootprintDet	FootprintTargetFu		per footprint submiss									Light	Footprin	This value is the difference between the EPA footprint target FE value (FT-14) and the mfr		Back	Assigne	
FT-15	Discrepancy Value	and EPA Target FE values.	ails	ancyValue	TRUE	ion	N(5,2)	Decimal			5	2	0	999.99	Duty	t	footprint target FE value (FT-13).	Verify	End	d	
						1 per footprint															
	Manufacturer Footprint Target GHG Value Rounded to Two	Enter the manufacturer- calculated target greenhouse gas value (in miles per	,			index per															
NEW FT-16	Decimal Places (grams per mile)	gallon) of this footprint for this model type.			TRUE	submiss	N(4,1)	Decimal			4	1	0.1	999.9	Light Duty	Footprin t		Mfr	Front End	XML	
						1 per															
						footprint index															
NEW	EPA Footprint Target GHG Value Rounded to Two Decimal Places (grams per	The EPA-calculated target greenhouse gas value (in miles per gallon) of this				per footprint submiss									Light	Footprin			Back	Assigne	
FT-17	mile)	footprint.			TRUE	ion	N(4,1) [	Decimal			4	1	0.1	999.9	Duty	t	See separate GHG calculation tab.	Verify	End	Assigne d	
						1 per footprint															
		The EPA-calculated absolute value of the discrepancy				index per footprint											This value is the difference between the EPA footprint target GHG value (FT-17) and the mfr				
NEW FT-18	Footprint Target GHG Discrepancy Value	between the manufacturer and EPA Target GHG values.			TRUE	submiss ion	N(4,1)	Decimal			4	1	0.1	999.9	Light Duty	Footprin t	footprint target GHG value (FT- 16).	Verify	Back End	Assigne d	
This is New FT-19	n EPA-Only database table that Footprint Coefficient Model	needs to be created. EPA will The applicable model year for each set of CAFE and GHG	need to enter these coeffied	cients into the databa	ase tables be TRUE	ofore the CA	N(4)	HG calculat Year	ions can	be completed	4	0	2008	2100			Will be entered manually once per model year with updated coefficients per regulation using back-end	ЕРА	Back End	Assigned	
	reaf	each set of CAFE and GHG coefficients.															per regulation using back-end database				
New FT-20	CAFE Footprint Target Minimum Domestic Passenger Vehicle Standard	EPA entered minimum allowed value for final Average Target FE calculation result. Applies to Domestically manufactured			TRUE	1 per model year	N(5,1)	Decimal			5	1	0	9999.9				EPA	Back End	Assigned	
	Childre Granudiu	Domestically manufactured Passenger Vehicles only.																			
New FT-21	CAFE Footprint Passenger Vehicle Coefficient A	EPA entered coefficients needed for CAFE calculations			TRUE	model	N(11,7)	Decimal			11	7	0	9999.9999999				EPA	Back End	Assigned	
New FT-22		with different coefficients for cars and trucks. EPA entered coefficients needed for CAFE calculations			TRUE	year 1 per model	N(11,7)	Decimal			11	7	0	9999.9999999				EPA	Back End	Assigned	
FT-22	CAFE Footprint Passenger Vehicle Coefficient B	needed for CAFE calculations with different coefficients for cars and trucks.				model year															
New FT-23	CAFE Footprint Passenger Vehicle Coefficient C	EPA entered coefficients needed for CAFE calculations			TRUE	model	N(11,7)	Decimal			11	7	0	9999.9999999				EPA	Back End	Assigned	
New FT-24	CAFE Footprint Passenger Vehicle Coefficient D	with different coefficients for cars and trucks. EPA entered coefficients needed for CAFE calculations			TRUE	year 1 per model	N(11,7)	Decimal			11	7	0	9999.9999999				EPA	Back End	Assigned	
FT-24	Vehicle Coefficient D	needed for CAFE calculations with different coefficients for cars and trucks.				model year															
			•																		

New	CAFE Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N(11.7)	Decimal		11	7	0	9999,9999999			EPA	Back End	Assigned	
FT-25	Coefficient A	needed for CAFE calculations		model													
	Coefficient A	with different coefficients for		vear													
				year													
		cars and trucks.															
New	CAFE Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N(11,7)	Decimal		11	7	0	9999.9999999			EPA	Back End	d Assigned	
FT-26	Coefficient B	needed for CAFE calculations		model													
		with different coefficients for		vear													
		cars and trucks.		,													
New	CAFE Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N/11 7)	Decimal		11	7	•	9999,9999999			EDA	Rock Eng	Assigned	
FT-27		needed for CAFE calculations	TROL		((1,7)	Decimal			- 1	•	3333.33333333			LFA	Dack Life	Assigned	
F1-27	Coefficient C			model													
		with different coefficients for		year													
		cars and trucks.															
New	CAFE Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N(11.7)	Decimal		11	7	0	9999,9999999			EPA	Back End	Assigned	
FT-28	Coefficient D	needed for CAFE calculations		model													
	Coefficient D	with different coefficients for		year													
				year													
		cars and trucks.		_			 										
New	GHG Footprint Passenger	EPA entered coefficients	TRUE	1 per	N(11,7)	Decimal		11	7	0	9999.9999999			EPA	Back End	d Assigned	
FT-29	Vehicle Coeffecient A	needed for CAFE calculations		model													
		with different coefficients for		year													
		cars and trucks.															
New	GHG Footprint Passenger	EPA entered coefficients	TRUE	1 per	N/11 7)	Decimal		11	7	0	9999,9999999			EDA	Rock Eng	Assigned	
FT-30		needed for CAFE calculations		model		Decimar			- 1		0000.0000000				Duok Line	Abbighed	
F1-30	Vehicle Coeffecient B																
		with different coefficients for		year													
		cars and trucks.															
New	GHG Footprint Passenger	EPA entered coefficients	TRUE	1 per	N(11,7)	Decimal		11	7	0	9999.9999999			EPA	Back End	d Assigned	
FT-31	Vehicle Coeffecient C	needed for CAFE calculations		model													
		with different coefficients for		vear													
		cars and trucks.		year													
New	GHG Footprint Passenger	EPA entered coefficients	TRUE	4	N/44 TO	Decimal	 	11	-	0	9999,9999999			504	Deals Free	Assigned	
			IRUE	1 per	N(11,7)	Decimal			1	U	9999.9999999			EPA	Dack End	Assigned	
FT-32	Vehicle Coeffecient D	needed for CAFE calculations		model													
		with different coefficients for		year													
		cars and trucks.															
New	GHG Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N(11.7)	Decimal		11	7	0	9999,9999999	1		EPA	Back End	Assigned	
	Coeffecient A	needed for CAFE calculations		model													
	Coeffectent A	with different coefficients for															
				year													
		cars and trucks.															
	GHG Footprint Light Truck	EPA entered coefficients	TRUE		N(11,7)	Decimal		11	7	0	9999.9999999			EPA	Back End	d Assigned	
FT-34	Coeffecient B	needed for CAFE calculations		model													
		with different coefficients for		vear													
		cars and trucks.															
New	GHG Footprint Light Truck	EPA entered coefficients	TRUE	1 ner	N(11.7)	Decimal		11	7	0	9999,9999999			FPA	Back End	Assigned	
		needed for CAFE calculations	ROL			Sectional					5555.5888888				Duck Line		
F1-35	Coeffecient C			model													
		with different coefficients for		year													
		cars and trucks.															
New	GHG Footprint Light Truck	EPA entered coefficients	TRUE	1 per	N(11,7)	Decimal		11	7	0	9999.9999999			EPA	Back End	d Assigned	
	Coeffecient D	needed for CAFE calculations		model		_											
		with different coefficients for		vear													
				year													
		cars and trucks.															

United Sta Date	tes Environmental Protection Age 2011-May-13	ancy, Office of Air and Radiation, Office of Transportation and	Air Quality																					
Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																				
EPA Data	<u>1</u>							Data Type	Min Max	Tot	al Fraction									Collectio	E Collection	Ba Ero ok End d Vali Vali dati dati		
CAFE Inf	Long Name ormation: Uniquely identifier Response Code	Description d by MirCode + ModelYear + CAFE Compliance Categ Enter the desired Process Code for the current submission	Parent's Name ory EvelEconomic AEES:htm	XML Tag	TRUE	Multiplicity 1 per CAFE/GHG	Basic Data Type A(1)	Description L	ength Length P	attern Digi	its al Digits	Min Value	Max Value	Allowed Values	Industry	Process FE CAFE	Example	IT Notes/Questions	Originator Mfr	n Point	Type XML	on on	Applicable Business Rules	English validation rules If process code=R, D or C a record must exist in Verify for the primary key of this module.
CA-0			COntaile	AnformationPr ocessCode	t TRUE		A(1)	n		A-ZD- 9)(3)				N = New dataset C = Correction of an existing Verify dataset	Light Duty	FE CAFE		Derived from user login	MIT	Front End	XML			
CA-0	Manufacturer Code	The three characteric code assigned by EPA to each manufacture. This will be derived from usery CDX account.	EDetails FuelEconomyCAFEStem Ission/FuelEconomyCAF EDetails		t IRUE	1 per CAFE/GHG	A(3)	String	3 3						Light Duty	FE CAFE			veny	Front End	XML		LD-FE-CA-BR001b LD-FE-CA-BR002 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR016 LD-FE-CA-BR021a LD-FE-CA-BR021a LD-FE-CA-BR021a	CARE Complexes Catagory - MIT Code + Model Year man not east for process codes/N, otherwise, man sets for other process codes.
CA-1	Model Year	Enter the applicable Model Year for this CAFE submission.	FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails	ModelYear	TRUE	1 per CAFE/GHG	N(4)	Year	4 4			1957	2100		Light Duty	FE CAFE		Lock the MY CAFE data after the official MY CAFE letter is sent. Data can't be modified w/o unlocked by EPA staff.	Mfr	Front End	XML		LD-FE-CA-BR001a	CAFE Compliance Category + Mfr Code + Model Year must not exist for process code=N, otherwise, must exist for other process codes.
CA-4	CAFE Compliance-	Enter the applicable CAFE/GHG Compliance Category for this CAFE/GHG submission.			a TRUE	1 per CAFE/GHG	A(3)	Enumeratio						DP-Domotik Passonger	Light Duty	FE CAFE			Mfr	Front	XML		LD-FE-CA-BR001a LD-FE-CA-BR001b LD-FE-CA-BR002 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR002	
	CARE(GMG Compliance Category		isator voieconomycky ED stale	r	<i>u</i>			n						999 – Honger Pessenger Vehicles 17 – Lipt Tracks PV – Passenger Vehicles	bity			Issues on the model type hall indicate that CA-26 to CA-27, very will be programmed to calculate the baselets and the CA-26 to CA-27, very will be CAET may values, the trait (-4 doction) place) CAET may value, and with the condex place of CAET model walls. The maximum CAET model walls is block of 1.2 may be the the condex place of 1.2 maximum CAET model walls. The CAET condex to be block on the the condex condex to block on the for the aboved maximum Cath Indu, shares funded values. CAET condex is, explicable model year.		EIG			LD-FFE-CA-BR001b LD-FFE-CA-BR002 LD-FFE-CA-BR002	
CA-127 (New)	GHG Exempt Indicator	For the CAFE/GHG submitter, is your company exempt under 40 CFR 86.1801-12(j) or are the production units between 0 and 4999 over a period of time defined in 40 CFR 86.1801-12(k)?			FALSE	1 per CAFE/GHG	A(1)	Enumeratio						N=No Y=Yes	Light Duty	FE CAFE			Mr	Front End	XML		New LD-FE-CA-BR031	Required if Model Year >=2012
CA-128	GHG Calculation Method	of time defined in 40 CFR 86.1801-12(k)? Enter GHG calculation method, i.e. carbon-related exhaust emissions (CREE) or optional carbon-relate exhaust emissions (OCREE). OCREE includes N2)			FALSE	1 per CAFE/GHG	A(5)	Enumeratio						CREE = CREE OCREE = OCREE	Light	FE CAFE			Mr	Front	XML		New LD-FE-CA-BR032	Required if Model Year >=2012
(new)		exhaust emissions (CREE) or optional carbon-relate exhaust emissions (OCREE). OCREE includes N2) and CH4 in the equation, ref 40 CFR 600.113-12(h)	d					n						OCREE = OCREE	Duty					End				
CA-129 (new)	For OCREE calculations, should N2O emissions always default to	Yes or no radio button. Business rule: Yes can only be used for 2012-2014 model years.	'		FALSE	1 per CAFE/GHG	A(1)	Enumeratio						N=No Y=Yes (2012 to 2014 only)	Light Duty	FE CAFE		'Yes' is only allowed for 2012 to 2014 model years	Mr	Front End	XML		New LD-FE-CA-BR033	Required if Model Year >=2012 and <=2014
CA-4.5		is this CAFE/GHG submission complete and ready for	FuelEconomyCAFESubm Ission/FuelEconomyCAF	FinalStatusInd	1 TRUE	1 per CAFE/GHG	A(1)	Enumeratio						N=No Y=Yes	Light Duty	FE CAFE			Mfr	Front	XML			
		submissions unit this indicator is set to "Yes". If necessary, It will still be possible to submit a cornection to the CAFE/GHG submission after this indicator has been set to "Yes".	Ission/FuelEconomyCAF EDetails	cator		-		n						Y=Yes	Duty					End				
CA-130 (New)	EPA Calculated Official Model Year GHG	The Verify-calculated final model year GHG production units for this CAFE/GHG Compliance			FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999					New Verify calculation	Verify	Back End	Assigned		New LD-FE-CA-BR034	Required if Model Year >=2012
CA-131 (New)	Production Units EPA Calculated Official Model Year GHG TLAAS	at CaRculated Stats Information The Verify-calculated final model year GHG production units for this CAFE/GHG Compliance Category (CA-4). The Verify-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4).			FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999					New Verify calculation	Verify	Back End	Assigned		New LD-FE-CA-BR035	Required if Model Year >=2012
CA-53 (Naw)	CD4 Colorised Official	Category (CA-4). The Verify-calculated final model year truck CAFE production units. Required for all truck			FALSE	1 per CAFE/GHG	N(7)	Integer		7	0	0	9999999					New Verify calculation	Verify	Back End	Assigned		New LD-FE-CA-BR036	Required if CAFE/GHG Compliance Category = Light Truck
(New) CA-54	Model Year Truck CAFE Production Units EPA Calculated Official	production units. Required for all truck submissions. The Verily-calculated final model year domestic			FALSE	1 per CAFE/GHG	N(7)	Integer		7	0	0	9999999					New Verify calculation	Verify	End Back End	Assigned		New LD-FE-CA-BR037	Required If CAFE/GHG Compliance Category = Passenger Vehicle
(New)	Model Year Domestic Passenger Vehicle CAFE Production Units	The Verify-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	1			compliance category														End				
CA-55 (New)	EPA Calculated Official Model Year Import Passenger Vehicle CAFE	The Verify-calculated final model year import passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	1		FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999					New Verify calculation	Verify	Back End	Assigned		New LD-FE-CA-BR038	Required if CAFE/GHG Compliance Category = Passenger Vehicle
CAFE &		rer Official Calculated Sales Information	FuelEconomyCAFESub	FinalMedelYe	TRUE	1 per CAFE	N(7)	Integer				4	0000000		Light-	SE-CASE			Mite	Front-	XML			Must not = 0
CA-5 CA-132	Production Units	CAFE compliance category.	mission/FuelEconomyC AFEDetails	arProduction Number	FALSE	1 per CAFE/GHG	N(7)	Integer			0	0	9999999		Duty				Mr	End	XML		Delete LD-FE-CA-BR015 New LD-FE-CA-BR039	Required if Model Year >=2012
(Naw)	Manufacturer Calculated Official Model Year GHG Production Units	Enter the manufacturer-calculated final model year GHG production units for this CAFE/GHG Compliance Category (CA-4).				compliance category														End				
CA-133 (New)	Manufacturer Calculated Official Model Year GHG TLAAS Production Units	Enter the manufacturer-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4).			FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999						Mfr	Front End	XML		Now LD-FE-CA-BR039	Required if Model Year >=2012
CA-50 (New)	Manufacturer Calculated Official Model Year Truck CAFE Production Units	Enter the manufacturer-calculated final model year truck CAFE production units. Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture	OfficialProdu ctionCount	FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999						Mr	Front End	XML		New LD-FE-CA-BR040	Required if CAFE/GHG Compliance Category = Light Truck
CA-51 (New)	Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production	Enter the manufacturer-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	rTruckDetails FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture	OfficialProdu ctionCount	FALSE	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	0	9999999						Mir	Front End	XML		New LD-FE-CA-BR041	Required If CAFE/GHG Compliance Category = Passenger Vehicle
CA-52	Venicle GALE Production Units Manufacturer Calculated Official Model Year Import	Enter the manufacturer-calculated final model year import passenger vehicle CAFE production units.	FuelEconomyCAFESub	OfficialProdu	FALSE	1 per CAFE/GHG	N(7)	Integer		7	0	0	9999999						Mr	Front	XML		New LD-FE-CA-BR042	Required if CAFE/GHG Compliance Category = Passenger Vehicle
	Passenger Vehicle CAFE Production Units	Required for all passenger vehicle CVP2 productor drink. Required for all passenger vehicle submissions.	AFEDetails/Manufacture rimportedPassengerVeh icleDetails alternative fuel incentive of	rodie) M	or All Carro	of GHG calculations	ACTMENT																	
Delete: CA-5.9	EPA Baseline Average FE Unrounded Unadjusted 6-	The Verify calculated baseline average fuel economy miles per gallon value that has been truncated to 6-	, and many ender incentive of	Not	TRUE	nd GHG calculations use 1 per GAFE	N(0,6)	Becimal		•	6	θ	99.999999		Light- Duty-	FE GAFE			Verily	Back- End	Assigned			
	Docimal	decimal places. For this compliance category. The FE wate does not contain interactive costs also which costs production of dual fuel, statement fueld which is for the applicable model year, is unadjusted by the Test Perceders Alguement specification 40 CPR 400510- 00 (e) but truncated to 5 decimal places	-																					
Delete: <del>CA 6</del>	e A Massing Average FE Unrounded Unadjusted 4 Decimal	In the second	5 12 12 12		- ALUE	3per CAFE	*(5.4)	Uocins!		•		U	2012033		ught. Buty	AL CAFE			verily	End	Accegnod			

Pink = TBD	Orange = Changes Due To New Technologies (Multi		Red = Misc Text Edits	Blue = Misc Certification																	
TBD	FUELS, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Changes																Ba	
EPA Data								Data Type	Min Max										Enc Rk End Vali Zolection dati Type on	ak Eo d	
clement number CAFE Info CA-134	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Description	Length Length, Patte	m Digits al	Digits Min Value	Max Value	Allowed Values	Industry Process	Example	IT Notes/Questions	Originator	n Point	Type on	on Applicable Business Rules	English validation rules
CA-134 (New)	EPA Calculated Baseline Average GHG Uppounded	The Verify-calculated baseline average GHG gram	ry		FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back End	Assigned	New LD-FE-CA-BR043	Required if Model Year >=2012
()	4 Decimal	Description de M MitCode + Model/Year « CAFE Compliance Catego The Verfy-cateutated baseline average GHG gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA- 4). The average GHG value does not contain incentive credit silowable for production of dual/tuel, aternato-fueled vehicles.																Linu			
CA-135 (New)	EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back End	Assigned	New LD-FE-CA-BR044	Required if Model Year >=2012
	Unrounded 4 Decimal	The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.																			
CA-59 (New)	EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal	The Verify-calculated baseline truck CAFE miles per			FALSE	1 per CAFE/GHG	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back .	Assigned	New LD-FE-CA-BR045	Required if CAFE/GHG Compliance Category = Light Truck
	Frack CAFE Unrounded 4 Decimal	The Verify-calculated baseline truck CAFE miles per gallion value that has been rounded to 4 decimal places. The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate- fueled vehicles. Required for all truck submissions.																			
CA-60 (New)	EPA Calculated Baseline Domestic Passenger	The Verify-calculated baseline domestic passenger vehicle CAFE miles per gallon value that has been			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back . End	Assigned	New LD-FE-CA-BR046	Required if CAFE/GHG Compliance Category = Passenger Vehicle
	Proceeding and the second seco	The Verify-saturated baseline domestic passenger vehicle of FF miles per gallor dust ten has been on the Verifield of FF miles and the same ten has been and contain locative credit allow table by production of dual vehicles. The CAFE vehicles. The CAFE value is <u>NOT dualized</u> by the test by production adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.																			
CA-61 (New)	EPA Calculated Baseline Import Passenger Vehicle	The Verify-calculated baseline import passenger vehicle CAFE miles per gallon value that has been			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back . End	Assigned	New LD-FE-CA-BR047	Required If CAFE/GHG Compliance Category = Passenger Vehicle
	EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The Verify-calculated baseline import passenger while: CAFE mission programs varies that has been rounded to 4 decimal places. The CAFE value does not contain incess: The CAFE value for production of dual-haut, atemate-fuelde vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR (00.510-00 (e). Required for all passenger vehicle submissions.																			
Delete: CA-6.3	EPA Baseline Average FE Rounded Unadjusted 1-	The Verify calculated baseline average fuel economy miles per callon value entered for Baseline Average			TRUE	1 per GAFE	N(3,1)	Decimal		э	+ e	99.9		Light- Duty	E		Verily	Back- End	lasigned		
	Roundou Undquiston 1. Docimal	FE Unrounded Unadjusted 4 Decimal (CA 6) and has- further-been rounded to 1 decimal place for this- compliance category.																			
CA-136 (New)	EPA Calculated Baseline Average GHG Rounded Whole Number	The Verify-calculated baseline average GHG gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, altermate-fueld vehicles.			FALSE	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0 0	9999		Light Duty			Verify	Back . End	Assigned	New LD-FE-CA-BR048	Required if Model Year >=2012
CA-137 (New)	EPA Calculated Baseline	The Verily-calculated baseline average GHG TLAAS			FALSE	1 per CAFE/GHG	N(4,0)	Integer		4	0 0	9999		Light Duty			Verify	Back	Assigned	New LD-FE-CA-BR049	Required if Model Year >=2012
(Naw)	EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number	The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.				compliance category								Duty				End			
CA-63 (New)	EPA Calculated Baseline Truck CAFE Rounded 1	The Verify-calculated baseline truck CAFE miles per nation value that has been rounded to 1 decimal			FALSE	1 per CAFE/GHG compliance category	<del>N(4,1)</del> N(5,1)	Decimal		5	1 0	9999.9		Light Duty			Verify	Back -	Assigned	New LD-FE-CA-BR050	Required if CAFE/GHG Compliance Category = Light Truck
	Decimal	The Verify-calculated baseline truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate fueled vehicles. Required for all truck submissions.																			
Delete: CA-7.8	EPA Baseline Average Pascenger Vehicle FE-	The Verity calculated TPA adjusted average Fuel- Economy value that has been truncated to 6 decimal-			FALSE	1per CAFE	<del>N(2,6)</del>	Decimal			• •	00.000000		Light RE-CAR			Verily	Back- End	Lesignod		Calculation required when CAFE Compliance category (CA. () = "DP" or "IP"; else, must not be present.
	<del>Unicendes IIIX Adjusted</del> 6 Decimal	pilotes for this passenger submouse companies category. The E value does not contain the codil for production of dual fuel, attemate fuel vahicles for the applicable model year, is <u>adjusted</u> by the Test. Procedure Adjustment specified in 40 GFR 606.510- 08 (o) but is truncated to E docimal places.																			(Present only ECA-4
Delete: CA-7.9	EPA Baseline Average Passenger Vehicle FE-	The VerBy calculated TRA adjusted average Fuel. Economy value that has been truncated to 6 decimal.			FALSE	1por CAFE	N(6,4)	Decimal		•	4 0	89.9999		Light FE-CAR	•		Verilly	Back. End	bongiaal		Calculation required when CAFE Compliance category (CA-() = "DP" or "IP"; else, must not be present.
	Unrounded TPA Adjusted 4 Docimal	please their number is a decimal please for this pacenages subsolits compliance stategory. The FL value does not contain the could for production of dual fuel, advanted within a could for production of the stategory of the stategory of the state of the Adjustment specified in 40 CFR 00051000 (4) but its unumated 16 of contain places than rounded to 4 decimal places-																			(Present only I CA + or T)
CA-66 (New)	EPA Calculated Baseline Domestic Passenger	The Verify-calculated test procedure adjusted domestic passenger vehicle CAFE value that here			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back End	Assigned	New LD-FE-CA-BR051	Required if CAFE/GHG Compliance Category = Passenger Vehicle
(rew)	Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	The Verfly-calculated test procedure adjusted domestic passenger vehicle CAFE value that has been rounded to 4 decimal places. The CAFE value does not contain the credit for production of dual- fue, alternate vehicles. The CAFE value is adjusted by the test procedure adjustment specified in 40 CFR 0005100 (e). Required for all passenger vehicle submissions.																End			
CA-67 (New)	EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test	The Verify-calculated test procedure adjusted import passenger vehicle CAFE value that has been			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4 0	9999.9999					Verify	Back End	Assigned	New LD-FE-CA-BR052	Required If CAFE/GHG Compliance Category = Passenger Vehicle
	CAFE Unrounded Test Procedure Adjusted 4 Decimal	The Verify-calculated test procedure adjusted import passenger vehicle CAFE value test has been rounded to 4 decimal places. The CAFE value does not contain the certafk for production of dual-luid, attenuat-fuel vehicles. The CAFE value is <u>adjusted</u> , by the test proceedure a djustment specified in 40 CFR 600.51068 (c). Required for all passenger vehicle submissions.				1 par GAFE	<del>N(3,1)</del>					99.9									
Delete: CA-8	Passonger Vehicle FE-	The Verity calculated average Fuel Economy value for this passanger automobile compliance category. The FE value door not contain the credit for			HALSE	1 per GAFE	<del>N(3,1)</del>	vecimal		1	•	<del>99.9</del>		Duty FE CAFI			verity	Back- End	asigned		uncument required when UAIL compliance category (GA-4) = "DP" or "IP", else, must not be precent.
	Docimal	poplicable model year, is <u>plicable</u> by the Test- Procedure Adjustment specified in 40 CFR 600,510- 02 (o) but is truncated to 5 decimal places then rounded to 1 decimal places.																			(Present only 2 CA-4
CA-70 (New)	EPA Calculated Baseline Domestic Passenger	The Verify-calculated test procedure adjusted domestic passenger vehicle CAFE value that has			FALSE	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1 0	9999.9					Verify	Back . End	Assigned	New LD-FE-CA-BR053	Required If CAFE/GHG Compliance Category = Passenger Vehicle
	EPA calculated basene Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The Verty-calculated test procedure adjusted domestic passare vehicle CAP* value that has been rounded to 1 decimal pice. The CAPE value does not comits the credit for production of dual- fault admenta-fuel vehicles. The CAPE value is adjusted by the test procedure adjustment specified in 40 CPR 400.510-08 (s). Required for all passanger vehicle submissions.																			
L		1																		1	

Pink = TBD	Drange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																			
EPA Data element number	ong Name	Description By MrCode + ModelYear + CAFE Compliance Catego	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min. Max. Length	<u>Iotr</u> Pattern Digit	al Fraction	Min Value	<u>Max Value</u>	Allowed Values	Industry.	Process Example	(T Notes)	Questions	Originator	Collectio C n Point	Enc ni- Enc Val olection dat Type on	Ba Ec Ec Ec Ed Ed Ed Ed Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec	English validation nam
(Naw) 1	PA Calculated Subsenior mport Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The very-calculate his proceeder adjusted import passenger vehicle CAFE value that has been rounded to 1 decimal place. The CAFE value does not contain the credit for production of dual-fuel, alternativel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFF 605.010.08 (e). Required for all passenger vehicle submissions.		offic) No		1 per CAFE/GHG compliance category				5	1	0	9999.9						Verity	Back A End		New LD-FE-CA-BR054	Regulard If CAFE(BHS Compliance Catagory = Passanger Valida
Delete: CA-6-3	Ar Bacolino, Averago FE Inrounded Unadjucted 4 Jacimal	The Christianics Results (Does NOT Include dustrial). Class dustrial and the second	FuelEconomyCAFESub mission/FuelEconomyC AFEDotalia	Manufacturer BassineAver ageUnrounde <del>dUnadjusted</del> Value	TRUE	L-perCAPE	N(6.4)	Decimal		•	4	•	22.000		Light F Duty	ECAFE			Mar-	End	XML		
CA-138 (New)	Annufacturer Calculated Baseline Average GHG Jnrounded 4 Decimal	The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to 4 decimal places for this CAPE/OHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR055	Required if Model Year >=2012
CA-139   (New)	Aanufacturer Calculated Jaseline Average GHG (LAAS Unrounded 4 Decimal	The manufacturer-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 decimal places for this CAFEOHG Compliance Catogory (CA-4). The average GHU value does not contain incentive credit allowable for production of dual-fuel, attemate-fueled vehicles.	•		FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR056	Required If Model Year >=3012
CA-56   (New)	Asnufacturer Calculated Baseline Truck CAFE Jinrounded 4 Decimal	The manufacturer-calculated baseline truck CAFE miles per gallon value that has been rounded to 4 decimal places for this CAFE/GMC Compliance Category (CA-4). The CAFE value does not contain incentive credit allowable for production of dual-fuel alternate-fueled vehicles. Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Mandracture (TruckDetails/BaselineT ruckDetails	Unrounded4V alue	FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR057	Required If CAFE/GHG Compliance Category = Light Track
CA-57   (New)     		production of dual-fuel, alternate-fueled vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510- 08 (e). Required for all passenger vehicle submissions.		UnroundedUn adjusted4Val ue		1 per CAFEJGHG compliance category	N(8.4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR058	Regime I CAFECHIS Compliance Catopry = Passinger Velicle
CA-58   (New)   	Annafacturer Calculated Baseline Import Aassenger Vehicle CAFE Inrounded Unadjusted 4 Decimal	The manufactures calculate baseline import the base base rounded to 4 decimal places for this bas been rounded to 4 decimal places for this CAFEGNIG Companies Catagory (CA-1). The CAFE value does not contain incentive credit allowable for production of data value, alternate-baseled vehicles. The CAFE value is <u>NCT allowable</u> vehicles and the set of the set of the set procedure adjustment specified in a 6 (267 600.51%) submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetailSManufacture (mpontedPassengerVehi icleDetails/BaselineVehi cleDetails	UnroundedUn adjusted4Val ue		1 per CAFE/GHG compliance category	N(8.4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR059	Regime I CAFECHIS Compliance Category - Passinger Velicle
CA-140 (New)	Annufacturer Calculated Baseline Average GHG Rounded Whole Number	The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to a whele number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.				1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0	0	9999						Mir	Front End	XML	New LD-FE-CA-BR060	Required if Model Year >=2912
(New)	Annufacturer Calculated Jaseline Average GHG (LAAS Rounded Whole Number	The menufacturer-colocidated baseline average GHC TLAAS gram per mile value that has been rounded to a whole number for this CAFE/0HC Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, atternate-fueled vehicles.	•		FALSE	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0	0	9999						Mfr	Front End	XML	New LD-FE-CA-BR061	Reguled I Model Year >>2012
CA-62   (New)	Annufacturer Calculated Jaseline Truck CAFE Rounded 1 Decimal	The manufacture-calculated baseline truck CAFE miles per gallow value that has been rounded to 1 decimal place for this CAFE(AHG Compliance Category (CA-1). The CAFE value does not contain incentive credit allowable for production of dual-fuel, aternato-fueld vehicles. Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruckDetails/BaselineT ruckDetails	Rounded1Val ue	FALSE	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1	0	9999.9							Front End	XML	New LD-FE-CA-BR062	Required If CAFE/GHG Compliance Category = Light Truck Required If CAFE/GHG Compliance Category = Passenger Vehicle
(New)	Annufacturer Calculated Jaseline Domestic Passenger Vehicle CAFE Inrounded Test Procedure Adjusted 4 Jecimal	submissione. The manufacture-calculated baseline test procedur adjusted domestic passanger which CAFE value that has been rounded to 4 deciral places for this CAFE (MIC Compliance Category (CA-4), The CAFE calculated of the second second second second calculated by the test procedure adjustment specified passanger vahicle submissions.	mission/twellconomyCA mission/twellconomyC AFEDetails/Manufacture r/Domestic/Passenger/Ye hicle/Details/Baseline/Ye hicle/Details	justed4Value		1 per CAFE/GHG compliance category		Decina		•										Front End			
CA-65   (New)   	Annufacturer Calculated Jaseline Import Passenger Vehicle CAFE Jarounded Test Procedure Adjusted 4 Decimal	The manufacturer calculated baseline list procedum adjusted import passingle which, CAFE what has calculated import passingle which, CAFE what has CAFEWIG Companies Callargory (CAA). The CAFE value does not contain the credit for production of adjusted by the test procedure adjustment specifies adjusted by the test procedure adjustment specifies in a GCFR 603.01506 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetalis/Manufacture importedPassengerVehi IcleDetalis/BaselineVehi cleDetalis	UnroundedAd justed4Value	FALSE	1 per CAFE/GHG compliance category	N(8.4)	Decimal		8	4	0	9999.9999						Mfr	Front End	XML	New LD-FE-CA-BR064	Required If CAFE(CHIS Compliance Category = Passinger Vehicle
Delete: CA-2.05	Mr Baseline Average Jaccenger Vohicle FE- lounded TPA Adjusted 1- Jacimal	The manufacturer calculated average Fuel Economy value for this passenger automobile compliance. entegory: The Far Value does not contain the credit for production of dual fuel, attemate fuel values for the applicable model year, is adjusted by the Test Procedure Adjustment specified in 40 CER (200510- 00 (r) but its timuted to 67 determing passes them rounded to 1 decimal places.	- FuelEconomyCAFESub mission/FuelEconomyC AFEDetails	Manufacturor BasolineAvor <del>ogeRounded</del> AdjustodVabu o	FALSE	1por CAFE	N(2.1)	Decimal		•	4	0	88.5		Light S Duby	E CAFE			hite.	Front- End	XML		
CA-68     (New)     	Asnufacturer Calculated Jaseline Domestic Passenger Vahicle CAFE Sounded Test Procedure kdjusted 1 Decimal	The manufacturer-calculated baseline test procedure adjusted domestic passinger vehicle CAFE value CAFE/ONIC Company of the CAFE value CAFE/ONIC Company of the CAFE value is value does not contain the credit for production of adjusted by the test procedure adjustment specifies adjusted by the test procedure adjustment specifies in a CAFE 602-500 cgl, Regulated to all passenger vehicle submissions.	e FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rDomesticPassengerVe hicleDetails/BaselineVe hicleDetails	Rounded1Val ue	FALSE	1 per CAFE/GHG compliance category	N(5.1)	Decimal		5	1	0	9999.9						Mfr	Front End	XML	New LD-FE-CA-BR065	Regulard & CAFE/OHS Completions Category = Passinger Velicia

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																		
EPA Data	Long Name	Description Definition		XML Tag	Required	Multiplicity E	Basic Data Type	Data Type Description	Min. Max. ength Length Pat	<u>Total</u> tem Digits	Etaction al Digits M	fin Value	Max Value	Allowed Values	Industry Process	Example	IT Notes Questions	Originator	Colectio Cole n.Point Ty	Eno sk Eno sk End d Vali Va tion dati da e on or	Applicable Business Rules Applicable Business Rules New LD-FE-CA-IBR066	Ergen validation rains
(New)	Wahunacturer Caculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The manufacture-calculate basene test procedure adjusted import passenger vehicle. CAFE value that has been rounded to 1 decimal place for this CAFE/GHC Compliance Category (C4-4). The CAFE value does not contain the credit for production of dual-fuel, atternative-tuk vehicles. The CAFE value dual-fuel, atternative-tuk vehicles. The CAFE value dual-fuel by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	Fuel:conomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVeh icleDetails/BaselineVehi cleDetails	Rounded1Val ue	FALSE 1 pc comp	er CAFE/GHG pliance category	N(5,1)	Decimal		5	1	0	9939.9					Mr	Front XM End			Explored #CAFEXBHQ Compliance Category = Passenger Yelhols
CAFE & C Delete: CAES	(d Information: EPP Flam) EAA Average FE Unexanded Unadjusted 4- Decensal	Citization Results (Includes dual fact, alternative fue Tas 6 and yearbanding as easing table another yearband table and yearbanding as easing table another yearband and table another another another another another all another another another another another another table and table another another another another another another and table and table another another another another another and table and table another another another another another another and table and table another anothe	incentive credits)	Note: All CAFE	and CHG cakulatik	ions use ASTME29 r	<u>₩(8.6)</u>	Decimal		•	5 6	•	30.00000		Light FE-CAFE Duty			Verity	Back. End			
Delete: 6+67	EFA Average SE Innovation Unadjusted 4- Queina	The Lerby exclusion of energies we exclusion while the product state the energies we exclusion while the state is an explosion of the target state. The states is an explosion of the target states is a state of the state state of the state states and states and states exclusions, the states states and states and states exclusions, states and states in production of the state states and states the states and states and states in production and states and states and states the states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and constrained and states and states and states and states and states and states and states and states and constrained and states and state	-			LperCAFE	24(6,4)	Decinal		•	•	9	20.000		Light RECARE Buty			Verity	Back. Assi	<b>bon</b>		
CA-142 (New)	EPA Calculated Final Average GHG Unrounded 4 Decimal	The Verify-calculated final average GHG grams per mile value that has been rounded to 4 decimal places for this CAFE/ORG Complance Category (CA-4). The average GHG value contains the incentive credit for dual-hull, alternate-fueld vehicles, but is <u>NOT</u> cogged to the maximum credit allowed for the model year (40 CFR 600.510-12(8).			FALSE 1 pe comp	er CAFE/GHG pliance category	N(8,4)	Decimal		8	4	0	9999.9999					Verify	Back Assi End	ned	New LD-FE-CA-BR067	Required if Model Year >=2012
CA-143 (New)	EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal	The VerBy-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal piaces or this CAPE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fue, alternate-fuelae vehicles, but its <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).				eer CAFE/GHG pliance category	N(8,4)	Decimal		8	4	0	9999.9999						Back Assi End	ned	New LD-FE-CA-BR068	Regined 9 Model Your >>012
CA-75 (New)	EPA Calculated Final Truck CAFE Unrounded 4 Decimal	The Verify-calculated final truck CAFE miles per gallon value that has been rounded to 4 decimal places. The CAFE value contains the incentive coeff for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (4C re 800.516-12(h)). Required for all truck submissions.			FALSE 1 pe comp	er CAFE/GHG pliance category	N(8,4)	Decimal		8	4	0	9999.9999					Verify	Back Assi End	ned	New LD-FE-CA-BR069	Required II CAFEXIMO Compliance Category + Light Truck
CA-76 (Now)	EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The Verify-calculated final domestic passenger vehicle CARE miles per gallow value that has been vehicle CARE miles per gallow value that has been contains the horizonte critic for darking (a domata- haele vehicles, but is <u>NOT support</u> ) to the maximum result allowed for model yarv (4C RR 00.510- rock), Roughet or all passenger vehicle submissions.			FALSE 1 pe comp	er CAFE/GHG pliance category	N(8,4)	Decimal		8	4	0	9999.9999					Verify	Back Assi End	ned	New LD-FE-CA-BR070	Rugulod & CAFECHIG Compliance. Category + Passanger Valicia
CA-77 (Now)	EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The Verify-abclasted final import passenger vehicle on 4 activity approximation of the second second second to 4 activity approximation of the second second second vehicles, but is <u>NCT access</u> to the maximum credit vehicles, but is <u>NCT access</u> to the maximum credit allowed for the model years (40 CFR 400 510-120). The CAFF value is <u>NCT advance</u> for the test allowed core the model years (40 CFR 400 510-120). The CAFF value is <u>NCT advance</u> for the test (b)(s), Required of all passenger vehicle submissione.				er CAFE/GHG pliance category	N(8,4)	Decimal		8	4	0	9999.9999						Back Assi End	ned	New LD-FE-CA-BR071	Rugulod & CAFECHIG Compliance. Category + Passanger Valicia
Debite: CAT	EPA Average FE Rounded Unadjusted 1 Decimal	The Varies scalar database arrange. The SE varies values a sub- metry and the scalar plane scalar sc				CAFE	N(3.1)	Decina		•	2	٥	99.9		Light RECARE Duty				Back. Assi End			
CA-144 (New)	EPA Calculated Final Average GHG Rounded Whole Number	The VerBy calculate final average OHG grams per mile value the has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average OHG value contains the incentive credit for dual-tud, attenuate-fueld value(s), but is <u>NCT</u> <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(8).			FALSE 1 pe comp	eer CAFE/GHG pliance category	N(4,0)	Integer		4	0	0	9999					Verify	Back Assi End	ned	New LD-FE-CA-9R072	Required I Model Ver >=2012

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																			
																					Ero at-	Ba ck En	
EPA Data	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min Max. Length Length	Total I	Fraction al Dioits	Min Value	Max Value	Allowed Values	Industry	Process Exp	ample (	IT Notes/Questions	Originator	Collectic C	End Vali ollection dati Type on	d Vali dati 20 Applicable Business Rules	English validation rules
CAFE Info CA-145 (New)	rmation: Uniquely identifie EPA Calculated Final Average GHG TLAAS	d by MirCode + ModelYear + CAFE Compliance Catege The Verify-calculated final average GHG TLAAS grams per mile value that has been rounded to a	ry		FALSE	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0	0	9999						Verify	Back A End	ssigned	New LD-FE-CA-BR073	Required if Model Year >=2012
		Execution By MinCode + ModelYaar + CAFE Compliance Catego The MinCode + ModelYaar + CAFE Compliance Catego The MinCode + MinCode Catego The MinCode + MinCode + MinCode + MinCode Hardware + MinCode + MinCode + MinCode Category (CA-4). The average CHG value contains which with the MINCode + MinCode + MinCode Values + MinCode + MinCode + MinCode + MinCode Values + MinCode + Mi																				Ba Ba Ba Ca Ca Accounts Business Fuels Accounts Business Fuels New LD-FE-CA-BR073	
CA-79 (New)	EPA Calculated Final Truck CAFE Rounded 1 Decimal	The Verify-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place for this CAFE/GHG Compliance Category (CA-			FALSE	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1	0	9999.9						Verily	Back A End	ssigned	New LD-FE-CA-BR074	Required if CAFE/OHG Compliance Category = Light Truck
		The VerBy-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place for this CAFEVIRIG Compliance Category (CA- 4). The CAFE value contains the incentive credit for dura-true, atemate-tuded vehicles, but is <u>NOT</u> appead to the maximum credit allowed for the model year (40 CFR 900.510-12(h)). Required for all truck submissions.																					
Delete: <del>GA-0.1</del>	SPA Average Passenger- Vehicle FE Unrounded TPA Adjusted & Decimal	The VerBy calculated TRA adjusted average Fuel Economy value that has been truncated to 6 decimal places for this passenger automobile compliance	-		FALSE	1per CAFE	<del>N(8,6)</del>	Docimal		•	•	۰	20.000000		Buty	RE CAFE			Varity	Back- A End	ssignod		Calculation required when CAFE Compliance category (CA-I) = "DF or "JF"; etce, meth not be present:
		category. The F5 value does not contain the credit for production of dual fuel, alternato fuel vahicles for the opplicable model year, is <u>activate</u> dy the Fest Procedure Adjustment specified in 40 CFR 600.510- 08 (o) but is truncated to 6 decimal places.																					(Present only I CA-4 -oLT)
Delete: <del>CA-0.2</del>	SPA Average Passenger- Vehicle FE Unrounded TPA Adjusted 4 Decimal	The Verily calculated TRA adjusted average Fuel- Economy value that has been truncated to 6 decimal places then rounded to 4 decimal places for this-	-		FALSE	1per CAFE	N(6,4)	Docimal		•	4	•	88.9999		Light- Duty	RE-CARE			Varity	Back- A End	seignod		Calculation required when CAFE Compliance category (CA-4) = "DP" or "IP"; else, must not be present:
		passanger sutambilis compliance category. The EV value does not contain the created for production of draft-fact, elternate-fact vehicles for the applicable model year, is a disturated by the Tast Procedure. Adjustment epsecified in -00 CFR 500.510-00 (c) but is trunceted to 50 decimal places then rounded to 4 docimal-places.																					Press of 2CA + ol7
CA-82 (Naw)	EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded	The Verify-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	0	9999.9999						Verily	Back A End	ssigned	New LD-FE-CA-BR075	Required if CAFE/GHG Compliance Category = Passenger Vehicle
	Test Prodedure Adjusted 4 Decimal	This Yorfy-calculated that demonstrate parasetager hashes the separation mailgoint CAFE value that has been rounded to 4 decimal places. The CAFE value contains the credit for production of dual-tak, alternate-law vehicles. The CAFE value is <u>adjutted</u> who has to produce value taking scale is <u>adjutted</u> 400.5100 (s). The CAFE value is <u>b0T capped</u> to the tast proceed of cont the main of the para management above control for the main of the para term of the scale of the second scale of the scale vehicle submissions.																					
CA-83 (Naw)	EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4	The Verify-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	0	9999.9999						Verify	Back A End	ssigned	New LD-FE-CA-BR076	Required if CAFE/GHG Compliance Category = Passenger Vehicle
	Procedure Adjusted 4 Decimal	The Verify-calculated final import passenger vehicle tast procedure adjusted CAFE vehicle that has been rounded to 4 decimal places. The CAFE value contains the credit for production of clashfuel, attenant-hal vehicles. The CAFE value is <u>adjusted</u> , by the test procedure adjustment apportion 14 or CFF R00.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model part (C CFR 600.510-12/h)). Required for all passenger vehicle submissions.																					
Deleter	EPA Average EE Roundad	book stoles (c). The CAPE value a <u>COT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle submissions.			EALGE	1	<del>N(2,1)</del>	Decimal			_		88.9		Links	E CASE			Verity	Park A	related		Calculation considered values CAEE Consolitions enterester (C.J.A TRP or TRP rates must
Delete: CA-8.5	TPA Adjusted 1 Decimal	Economy value for this passenger automobile compliance category. The FE value is <u>adjusted</u> by the Test Procedure Adjustment specified in 10 CFP.													Duty				,	Back. A End			not be procent. (Process only E CA-4 - oLT)
		then rounded to 1 decimal places. For easier data verification, the manufacturer-																					
		calculated average mpg value entered is allowed to- contain the extra mpg credit, where applicable, that may exceed the maximum allowable credit for production of dual fuel, alternate-fuel vehicles for the	_																				
		epplicable model year (Maximum credit allowed: 1.2- mgg for MY 1993-2010; 0.9 mgg for MY 2011-2014, rol: Energy Policy Act of 2005, Soction 772. (MY18/2)). The Official CAFE may value is the final-																					
		GATE mpg which, for example, may not exceed the 1.2 credit allowed in the 2010 model year.																					
CA-86	ERA Calculated Enal	The Verbucak dated final domestic parageous			FALSE	1 per CAEE/GHG	N(5,1)	Decimal					9999.9						Verify	Back A	related	New LD-FE-CA-BR077	Required If CAFE/GHG Compliance Category = Passenger Vehicle
(Naw)	Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted	The Verify-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel,			PALOE	1 per CAFE/GHG compliance category	N(5,1)	Decenar			·	,	3333.3						verty	Back A End	sayned	New LD-FE-CARBROTT	Required in CAPEIGNO Compliance Category in Passenger Venice
	1 Decimal	orialis the credit for production of dual-fuel atemate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT casped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passinger	:																				
		venicle submissions.																				New LD-FE-CA-BR078	
CA-87 (New)	EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The VerBy-calculated final import passenger vehicle test procedure adjusted CARE value that has been rounded to 1 detemp jaces. The CARE value contains the credit for production of dual fuel, statistical adjusted of the statistical statistical by the test procedure adjustment pacefile of the CRE R00.51004 (p). The CARE value is <u>NOT canced</u> to the maximum allowed credit for the model year (d) CRR 600.510-12(h)). Required for all passenger vehicle submissions.			FALSE	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1	0	9999.9						Verity	Back A End	ssigned	New LD-FE-CA-BR078	Required If CAFE/GHG Compliance Category = Passenger Vehicle
	Decimal	alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model user (40																					
CAFE & 0 Delete: <del>CA-6.9</del>	HG Information: Mfr Final ( Mfr Average FE- Unrounded Unadjusted 4- Decimal	Calculation Results (includes dual-fuel, alternative fuel Enter the manufacturer calculated average fuel economy miles per gallon value for this compliance category. The EF value is not adjusted by the Test	incentive credits) No FuelEconomyCAFESub mission/FuelEconomyG AEEDetails	Manufacture	nd GHG calcul TRUE	ations use ASTM-E29 ro 1por CAFE	ounding. N(6,4)	Decimal		•	4	•	80.0000		Light- Duty	RE CAFE			Mile.	Front- End	XML		
		Comparison of the second		stocl/aluo																			
		rounding method as specified in ASTM 529-67. For easier data verification, the manufacturer- calculated average mpg value entered is allowed to-																					
		contain the extra mpg credit, where applicable, that may exceed the maximum allowable credit for- production of dustifuel, alternate fuel vehicles for the anticable model user (flavinum credit alternate 1.2)	-																				
		mpg for MY 1993-2010; 0.9 mpg for MY 2011-2014, ref: Energy Policy Act of 2005, Section 772- (b)(1)2(3)). The Official CAFE mpg value is the final-																					
		LCANE mpg which, for example, may not exceed the 1.2 credit allowed in the 2010 model year																					

Pink = TBD	Drange = Changes Due To New Technologies (Multi	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification																	
TBD	FUELS, PHEV)	Green = Label/CAFE/GHG Changes	Red = MISC Text Edits	Changes														olectio Cole <u>1 Point</u> Front XI End	E I		
EPA Data																			nt E End Vali V	2 0 1	
olement number	Long Name	Description d by MitCode + ModelYear + CAFE Compliance Category	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	Min. Max. argth Length. Pattern	Total, Fraction Digits al Digits	Min Value		Allowed Values	Industry	Process Example	IT Notes/Questions	Originator	olectio Cole Point Ty	ction dati di pe on o	ati n Applicable Business Rules	English validation rules
CA-146 (New)	Manufacturer Calculated Final Average GHG Unrounded 4 Decimal	Berchiston Ber MinCode - Model/Year x CAFE Compliance Category The manufactures calculated final sverage GHG and a second pices for the CAFE/GHG Compliance Category (CA-4). The average GHG value contains to increming care and the CAFE/GHG Compliance Category (CA-4). The average GHG value contains to be neretive care in the CAFE/GHG Compliance Second contains and a second care of the second second contains and a second care of the second second contains and second care of the second contains second contains and second contains and second second contains and second second contains second contains and second second contains second contains and second contains second contains and second second second second second contains and second second second second contains and second			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8 4	0	9999.9999					Mfr	Front XI End	4	New LD-FE-CA-BR079	Required if Model Year >=2012
CA-147 (New)	Manufacturer Calculated Final Average GHG FLAAS Unrounded 4 Decimal	The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance			FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8 4	0	9999.9999					Mr	Front XI End		New LD-FE-CA-BR080	Required if Model Year >=2012
		The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal places for this CAFE/GHC Complance Category (CA-4). The average GHG value contains the incentive credit for dual-fload, alternate-fuelded vehicles, but is NOT capped to the maximum cndit allowed for the model year (40 CFR 600.510-12()).																			
CA-72 (Naw)	Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal	The manufacturer-calculated final truck CAFE miles per galion value that has been rounded to 4 decimal places. The CAFE value contains the bicoentive credit for dual-tual, alternate-fusied vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.516-120)). Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruck/Details/FinalTruc k/Details	Unrounded4V alue	FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8 4	0	9999.9999					Mfr	Front XI End	•	New LD-FE-CA-BR081	Required If CAFEORIO Compliance Category + Light Truck
CA-73 (New)	Vanufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Jnadjusted 4 Decimal	The manufacture-calculated final domestic passenger vehicle CAPE miles per galox vacuum term term of the second second second second second value contains the intervention contail for dual vehical alternate-vehicle vehicles, but its <u>NOT capped</u> to the maximum credit alternate vehicles <u>NOT adjusted</u> 460.516-12(h). The CAPE vehicle <u>NOT adjusted</u> for adjusted the time dialy and <u>Adjusted</u> to the test procedure adjustment specification at OCFR adjustment <u>NOT</u> adjusted for the other test procedure adjustment specification at OCFR adjustment <u>NOT</u> adjusted for the other adjustment <u>NOT</u> adjusted for the other adjustment <u>NOT</u> adjusted for the specification of the specification adjustment <u>NOT</u> adjusted for the specification of the specification of the specification of the test procedure test test <u>NOT</u> adjustment <u>NOT</u> adjusted test <u>NOT</u> ad	FualEconomyCAFESub mission/FualEconomyC AFEDetails/Manufacture r/Domestic/Patsenger/Ve hicle/Details/FinalVehicle Details	UnroundedUn adjusted4Val ue	FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8 4	0	9999.9999					Mfr	Front Xi End		New LD-FE-CA-BR082	Rogand & CAFEOHS Compliance Category + Pessenger Valocie
CA-74 (Now)	Wanufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The manufacture collubrated from Import passing the American State and American American American randed to 4 decimal places. The CAFE value contains the locative craft for calabratic, atternate- heeler values, but is <u>IOT calabrate</u> for 0.0150 rated above of the mostly part (407 Re0.0150 rated) above of the places approximately and the places application of parameters and the state of the admitisations.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVet icleDetails/FinalVehicleD etails	UnroundedUn adjusted4Val ue	FALSE	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8 4	0	9999.9999					Mr	Front XU End		New LD-FE-CA-BR083	Regined I CAFECHIG Complexes Category + Pesanger Values
CA-148 (New)	Manufacturer Calculated Final Average GHG Rounded Whole Number	The manufacturer-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAPE/IDR Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-toal, alternate-fueled vehicles, but it <i>BCT</i> capacit to the maximum credit allowed for the model year (40 CFR 600.510-12()).				1 per CAFE/GHG compliance category	N(4,0)	Integer		4 0	0	9999					Mr	Front X0 End	L.	New LD-FE-CA-BR084	Regulared if Medial Year >=2012
CA-149 (Naw)	Manufacturer Calculated Final Average GHG FLAAS Rounded Whole Number	The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit of value/sub-alternate-fuelded vehicles, but in <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).				1 per CAFE/GHG compliance category	N(4.0)	Integer		4 0	0	9999					Mir	Front XI End	L	New LD-FE-CA-BR085	Regulard I Model Year >>8/12
		The manufacturer-calculated final truck CAFE miles per galon value that has been rounded to 1 decimal place. The CAFE value contains the incentive credit for dual-fuel, alternata-fueld vehicles, but is <u>NDT</u> capad to the maximum credit alternet for the model year (40 CFR 600.510-12(h)). Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruckDetails/FinalTruc kDetails	Rounded1Val ue		1 per CAFE/GHG compliance category	N(5,1)	Decimal		5 1	0	9999.9						Front XI End	•	New LD-FE-CA-BR006	Ragulard & CAFEXIHIG Compliance Category + Light Truck
CA-80 (New)		The manufacture-calculated final domestic presenger which test proceeding adjusted CAFE to the second second second second second second that function adjusted to the second second second second second second second second second and QCFR 6053604 (s). The CAFE value is <u>UT</u> second second second second second second and QCFR 6053604 (s). The CAFE value is <u>UT</u> second second second second second second second second second second second second present second se	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture r/DomesticPassengerVe hicleDetails/FinalVehicle Details	UnroundedAd Justed4Value		1 per CAFE/GHG compliance category	N(8.4)	Decimal		8 4	0	9999.9999					Mir	Front XI End		New LD-FE-CA-BR087	Regulard & CAFECHIG Compliance Category + Pessanger Valicie
CA-81 (New)	Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Fest Procedure Adjusted 4 Decimal	The number last set of the large program of the last set of t	FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVet icleDetails/FinalVehicleD etails	UnroundedAd Justed4Value	FALSE	1 per CAFE/GHG compliance category	N(8.4)	Decimal		8 4	0	9999.9999					Mir	Front XI End		New LD-FE-CA-BR088	Negaled T CMFERHS Compliance Category + Passanger Vahiole
Delete: CA-8-6	Wr. Average FE Rounded.	The semiconverse strategies in the semiconverse strategies assessment of the semiconverse spectra strategies and the semiconverse str	FusiEconomyCAFESub mittionTutiEconomyC AFEDuiate	Manufacturer AverageRoun dodAdjustod Value	FALSE	1_por CAFE	<del>N(2.1)</del>	Decimal		3 5	•	55.5		Light. Duity	FE CASE			End X			
CA-84 (New)	Nanufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Fest Procedure Adjusted I Decimal	The manufacture-calculated final demestic passenger vehicles set procedure adjusted CAE value that has been rounded of 1 decimal place. The CAER value carinas the crastift or production of dual maintained by the test procedure adjustment application adjusted by the test procedure adjustment application is 40 CPR (8051-6174)). Regard to the model passenger vehicle submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsMinufacture OomesticPassengerVe hicleDetails/FinalVehicle Details	RoundedAdju sted1Value	FALSE	1 per CAFE/GHG compliance category	N(5.1)	Decimal		5 1	0	9999.9					Mfr	Front XI End		New LD-FE-CA-BR089	Required If CMFERING Compliance Category + Passinger Vahich

Pink = TBD	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	o Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																	
																			Ero	Ba	
EPA Data								Data Type	Min. Max.	Total Fractio	20							Collectio C	End Vali offection dati	Ba Ck En C Val dell G Acclosible Resiness Rules B New LD-FE-CA-BR000	
CAFE Info CA-85	Long Name mation: Uniquely identifie Manufacturer Calculated	Description d by MirCode + ModelYear + CAFE Compliance Catego The manufacturer-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 doclimal place. The CAFE value	FuelEconomyCAFESub	XML Tag RoundedAdju	FALSE	Multiplicity 1 per CAFE/GHG compliance category	Basic Data Type N(5,1)	Decimal	ength Length. Patter	5 1	0	<u>Max Value</u> 9999.9	Allowed Values	Industry.	Process Example (T)	Notes/Questions	Mr	Front	XML 00	New LD-FE-CA-BR090	English validation rules Required if CAFE/GHG Compliance Category = Passenger Vehicle
	Test Procedure Adjusted 1 Decimal	contains the credit for production of dual/teal, advantate-law brickes. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510.48 (c). The CAFE value is <u>NOT carced</u> to the maximum allowed credit for the model year (40 CFR 600.510.12(b)). Required for all passenger vehicle submissions.	rimportedPassengerVeh IcleDetails	sted1Value														End			
CAFE & C	HG Information: EPA's Of EPA Official Average GHG Grams Per Mile	ficial Calculation Results (includes "capped" alternative The official Verify-calculated final average GHG	-fuel, dual-fuel credits)	Note: All CA	FE and GHG	alculations use ASTM-E	29 rounding. N(4,0)	Integer		4 0	0	9999					Verify	Back A	isigned	New LD-FE-CA-BR091	Required if Model Year >=2012
		The official Verify-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAPE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fue, alternate-fuelde vehicles. The average GHG value is <u>categord</u> to the maximum credit advewd for the model year (40 CFR 600.510-12()).				compliance category												End			
CA-152 (New)	EPA Official Average GHG TLAAS Grams Per Mile	The official Verify-calculated final average GHO TLAAS grame per mile value that has been rounded to a whee number of this CAFE/IGHO Compliance Category (CA-4). The average GHO value contains the incentive credit for dual-kids, alternate-fueld vehicles. The average GHO value is <u>capped</u> to the maximum credit advewd for the model year (40 CFR 600.510-12()).			FALSE	1 per CAFE/GHG compliance category	N(4,0)	Integer		4 0	0	9999					Verity	Back A End	isigned	New LD-FE-CA-BR092	Rogded I Model Your >>012
	EPA Official Truck CAFE Miles Per Galion EPA Official Domestic	The official Verify-calculated final truck CAPE miles per gallon value that has been rounded to 1 decimal place. The CAPE value contains the hisconive credit for dual-fuel, alternate-fueld vehicles. The CAPE value is cagaed to the maximum credit allowed for the model year (40 CPR 600.510-12(h)). Required for all truck submissions.			FALSE	1 per CAFE/GHG compliance category 1 per CAFE/GHG	N(5,1) N(5,1)	Decimal		5 1	0	9999.9						Back Ar	isigned	New LD-FE-CA-BR093 New LD-FE-CA-BR094	Required IF CAFECING Compliance Calogory + Light Track Required IF CAFECING Compliance Calogory + Passenair Valicia
(New)	Passenger Vehicle CAFE Miles Per Gallen	The difficial Verif-calculated final domesic passenger vehicle tes procedure adjusted CAFE value that has been rounded to i docimal pitos. The CAFE value canabies the urent for production of lease adjusted by the test procedure adjustment specified in 60 CFF 80031-100 (c). The CAFE value is asystem to the maximum aboved credit for the model year 400 CFF 80031-100, Required for all passenger vehicle submissions.				compliance category		Decimal		5 1	•							Back A End	isigned		
	EPA Official Import Passenger Vehicle CAFE Miles Per Gation	contains the credit for production of dual-fuel, atternate-level vehicles. The GAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 690.510.40 (c). The CAFE value is <u>canned</u> to the maximum allow ed credit for the model year (40 CFR 690.510-12(h)). Required for all passenger vehicle submissions.				1 per CAFE/GHG compliance category	N(5,1)	Decimal		5 1	0	9990.9					Verify	Back A End	isigned	New LD-FE-CA-BR095	Roquind I CAFEOIO, Compliano, Calogory + Pessinger Vallade
CAFE & C Delete: CA-9	HG Information: Mfr's Offi Manufacturor Final CAFE- Milos Por Gallon	cial Calculation Results (includes "capped" alternative Enter the Official Corporate Average Fuel Economy to miler prevailse for the CAEE compliance	fuel, dual-fuel credits) N FuelEconomyCAFESub	ote: All CAFE a	Ind GHG calcu	dations use ASTM-E29 ro 1 por CAFE	ounding. <del>N(3,1)</del>	Decimal		3 1	•	99.9		Light.	E CAPE		Mite	Front- End	XML		
	Official CAFE Miles Per- Gallen	Enter the Official Corporate Average Fast Seconsmy is smiles per galanties of the CAFE compliance. retegory - it may include the credit, where explicible, up to the assimum allow able may allow for production of dual fast, statemate-fast-whites. (Meximum credit showd -1: Amg/or VMI-1992 eVE) the simple of the 2011-2014, est: Energy Policy Act of 2006, Socian 772 (b)(18(2))	AFEDetails																	New LD-FE-CA-BR095	
	Manufacturer Calculated Official Average GHG Grams Per Mile	The official manufacture-calculated final average OHG grams per mile value that has been rounded to a whole number for this CAFE/BHG Compliance Category (C4-N). The average OHG value contains the incentive credit for duals/sult, alternate-fueled vehicles. The average GHG value is capacity to the maximum credit allowed for the model year (40 CFR 600.510-12()).			FALSE	1 per CAFE/GHG compliance category	N(4,0)	Integer		4 0	•	9999					Mir	End	XML	New LD-FE-CA-BR096	Required # Model Your1012
	Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile	The official manufacture-calculated final average OHD TLAS gramp per mile value that has been rounded to a whole number for this CAFEIGHO Compliance Category (CA-1). The average GHO value contains the incentive credit for dual-vul, alternate-fuside velocities. The average GHO value is cagged to the maximum credit allowed for the model year (40 CFR 600.510-12()).			FALSE	1 per CAFE/GHG compliance category	N(4.0)	Integer		4 0	0	9999					Mir	Front End	XML		
	Manufacturer Calculated Official Truck CAFE Miles Per Gallon	The official manufacturer-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value canothas the locentre credit for dual fuel, alternate-fueled vehicles. The CAFE value is capacit to the maximum credit allowed for the model year (40 CFR 600.51012(h)). Required for all truck submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rTruckDetails	OfficialMPGV alue	FALSE	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5 1	0	9999.9					Mfr	End	XML	New LD-FE-CA-BR098	Required If CAFE/OHO Compliance Category + Light Truck
CA-89 (New)		The official manufacture-calculated final domastic preserving that here are proceeding adjusted for. The CARE value constants the credit or production of the CARE value constants the credit or production of the flag. attempt of the constant of the CARE value is adjusted by the sup product adjustment specified in dig CHR 00.510-001 (b). The CARE value is good CRR 00.510-010), Regulard for all passenger vehicle submissions.	FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rDomesticPassengerVe hicleDetails	OfficialMPGV alue		1 per CAFE/GHG compliance category	N(5,1)	Decimal		5 1	0	9990.3					Mfr	End	XML	New LD-FE-CA-BR099	Angeled I CAFFOHG Completion Cologory + Passinger Velicie
	Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon	CAFE value contains the credit for production of dua land, alternate-fueld vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-610, https://cAFE value is capped to the maximum allowed credit for the model year (40 CFR 600.510-120)). Required for all passenger vehicle submissions.				1 per CAFE/GHG compliance category	N(5,1)	Decimal		5 1	0	9999.9					Mr	End	XML	New LD-FE-CA-BR100	Required II CATEONO Compliance Category - Passenger Yellich
CA-10	Applicable CAFE Standard CAFE Standard Type	For Each CAFE Compliance Category Enter the applicable CAFE standard type for this CAFE Compliance Category.	FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails	StandardTypel ndicator	FALSE	(Including parameters ne 1 per CAFE	A(1)	Light-Duty Truci Enumeratio n	k reformed CAFE star	dards for an in	dividual mfr for MY	2010 and later)	R = Reformed CAFE U = Urreformed CAFE (existing requirements)	Light Duty	E CAFE		Mfr	Front End	XML	Delete LD-FE-CA-BR003 Update LD-FE-CA-BR004	Required for CARE Compliance Category (CA-I) = 17-ad-ani alivani kr. CIF-ad-37. For MY 2011 and bayond, when CARE Compliance Category (CA-I) = 1.7-, CARE Type Indiator mat = 17.

Pink = TBD	Drange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																		
																				Ba Eno cik Di: En		
EPA Data								Data Type Min	Max	Total Fraction								~	utio Color	End d Vali Vali		
CAFE Inform	ong Name nation: Uniquely identified CAFE Standard	Description 1 by MfrCode + ModelYear + CAFE Compliance Catego	Parent's Name ory	XML Tag	Required	Multiplicity	Basic Data Type	Description Length	Length Pa	attern Digits al Digits	Min Value	Max Value	Allowed Values	Industry	Process E	alqmax		inator n.F	oint Typ	8 20 20	Applicable Business Rules	English validation rules
		The applicable CAFE standard for this CAFE compliance category.			TRUE	1 per CAFE	N(3,1)	Decimal		3 1	0	99.9		Light Duty	FE CAFE		Send an annual (in Jan. 2) email Ven molfication to the EAR And encorrently wave to check or update the CAFE Standard and the CAFE Standard Cardiolations. If CAFE Type Indication (CA-10) = K* fren this value to polide from EPA Catchained 22.7, dets FCA-10 – V then book-up from CAFE Standards by Model Year and Compliance Category table.	ntity B	ick Assig	ned		Pric CME Completions Category (CA-10) = VP (* P) this value must equal the value in the last of book value the transmit Value (CA-10) and VD (* CA-10) and VD
CA-14 N		Calculation Enter the applicable Model Type Index for this CAFE submission.	FuelEconomyCAFES.ubm ission/FuelEconomyCAF EDetails/EPAGeneratedF uelEconomyCAFEDetails /EPAReformedModelTyp eDetails	ModelTypeInd exNumber	FALSE	1n (1 for each Model Type for this CAFE.)	N(3)	Irteger		CAFE Type Indicator (	1	999		Light Duty	FE CAFE		Verify will reference FE Label information by the primary key = Model Year (CA-1) + Mfr Code (CA-0) + Model Type Index (CA- 14).	rity Bac #+ Fi	kend Pro exist ant- ad XM	b Ing L	LD-FE-CA-BR005a LD-FE-CA-BR005b LD-FE-CA-BR005c LD-FE-CA-BR005d LD-FE-CA-BR005 LD-FE-CA-BR005	Required if CAFE Type Indicator (CA-10) + R1, olse not allowed.
CA-11.5 C	Carline Manufacturer Code	The carline manufacturer code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14). The division code derived from the FE Label information		EPAManufact urerCode	FALSE	1n (1 for each Model Type for this CAFE.)	A(3)	String 3	3					Light Duty	FE CAFE		GL-10 Ve	rify B E	nd exist dat	⊳ ing a	New LD-FE-CA-BR138	Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed.
	Division Code	reterenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14).	EDetails/ReformedStand ardCalculationDetails/Fin aModelYearProductionD etails	ManufacturerD IvisionCode	FALSE	1n (1 for each Model Type for this CAFE.)	N(2)	Integer			1	99		Light Duty	FE CAFE		GL-11 Ve	irify B E	dat	ing a	Now LD-FE-CA-BR139	Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed.
CA-13 C	Carline Code	The carline code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14).	FuelEconomyCAFESubm ission/FuelEconomyCAF EDetails/ReformedStand ardCaloulationDetails/Fin aModelYearProductionD etails	CarlineCode	FALSE	1n (1 for each Model Type for this CAFE.)	N(3)	Integer			1	999		Light Duty	FE CAFE		GL-12 Ve	rity B E	ick Pro nd exist dat	b ing a	Now LD-FE-CA-BR140	Required if CAFE Type Indicator (CA-10) = $\mathbb{R}^{*}$ , else not allowed.
CA-14.1	lasis Engine Index lest Group	The basic ongine index test group derived from the FE Label information referenced by the combination of Model Year (CA-1), Mir Code (CA-0), and Model Type Index (CA-14).			FALSE	1n (1 for each Model Type for this CAFE.)	A(12)	Fixed 12 String	12		4	999			FE CAFE		GL-13.5 Vo	rify B E	nd exist dat		New LD-FE-CA-BR141	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-14.2 T	ransmission Class Index	The transmission class index derived from the FE Label information referenced by the combination of Model Year (CA-1), Mir Code (CA-0), and Model Type Index (CA-14).			FALSE	1n (1 for each Model Type for this CAFE.)	N(3)	Integer			1	999		Light Duty	FE CAFE		GL-66 Ve	rify B E	nd exist dat	⊳ ing a	New LD-FE-CA-BR142	Required if CAFE Type Indicator (CA-10) = R', else not allowed.
CA-155 (New) li	CAFE Domestic/Import ndicator	(CA-14). Enter the applicable domestic or import indicator for this Model Type Index. This is required for passenger vehicle CAFE calculations.			FALSE	1n (1 for each Model Type for this CAFE.)	A(1)	Enumeratio n					D = Domestic I = Import	Light Duty	FE CAFE		N	llr Fi	nd XM	L	New LD-FE-CA-BR101	Required if Compliance category is equal to Passenger Vehicle, otherwise not allowed
CA-156 (New)	3HG TLAAS Indicator	Is this Model Type Index to be included in GHG TLAAS calculations?			FALSE	1n (1 for each Model Type for this	A(1)	Enumeratio					Y = Yes N = No	Light Duty	FE CAFE			llr Fi	ont XM	L	New LD-FE-CA-BR102	Required if Model Year >=2012
CA-157 ( (New) T	3HG Advanced Technology Indicator	Is this Model Type Index a fuel cell vehicle, EV or PHEV ?			FALSE	CAFE/GHG.) 1n (1 for each Model Type for this	A(1)	Enumeratio n					Y = Yes N = No	Light Duty	FE CAFE		Where is this data coming from. Verif (Calculation?, other dataset?)	y Bao Enc	k Pre- existin	v .	New LD-FE-CA-BR103	Required if Model Year >=2012
CA-14.5 F	Footprint Index	Verify-generated Enter the applicable footprint index.		FootprintIndex Number	FALSE	CAFE/GHG.) 1n (1 for each footprint per Model Type)	N(2)	Integer		2 0	1	99		Light Duty	FE CAFE		FT-5 Ve	rity B	data idk Pre nd exist		New LD-FE-CA-BR143	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-15 N	Nodel Type Footprint Description	Enter the manufacturer's model type and footprint description (e.g. 'super cab, 4WD, long bod, Dooley''; 'super cab, 2WD, short bed'', etc.). Repeat for each footprint within this model type index.			FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	A(300)	string 1	300						FE CAFE		FT-6 Va		dat ck Pre	a	New LD-FE-CA-BR144	Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed.
CA-158 F (New) G	Footprint Final Model Year BHG Production Units	Enter the final model year greenhouse gas production units of this footprint for this model type.			FALSE	1_n (1 for each footprint within each Model Type for this CAFE/GHG.)	N(7)	Integer		7 0	1	9999999		Light Duty	FE CAFE		Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GH40/CREE calculation. LE. emergency vehicles, sales in U.S. Territorice, etc. The GHG sales will be added in Phase 2.	llr Fi	ont XM	L	New LD-FE-CA-BR104	Required I Model Year >>2012
	ootprint Final Model Year E Production Units		FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails/ReformedStand ardCalculationDetails/Fin alModelYearProductionD etails	FinalModelYea rProductionNu mber	FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(7)	Integer		7 0	1	9999999		Duty	FE CAFE		Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHGCREE calculation. I.E. emergency vehicles, railes in U.S. Territories, etc. The GHG sales will be added in Phase 2.		nt XM nd		LD-FE-CA-BR007 New LD-FE-CA-BR145	Required if CAFE Type Indicator (CA-10) = IR, else not allowed.
CA-16 V	Wheel base (inches)	Enter the wheel base of this footprint for this model type measured in inches and rounded to one tenth of an inch-			FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(5,1)	Decimal		5 1	0.1	9999.9		Light Duty	FE CAFE		Ve	rify B E	nd exist dat	a a	New LD-FE-CA-BR146	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-17 F	ront Track Width (inches)	Enter the front track width of this footprint for this model type measured in inches and rounded to one tenth of an inch.			FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(4,1)	Decimal		4 1	0.1	999.9		Light Duty	FE CAFE		Ve	rify B E	nd exist dat	⊳ ing a	New LD-FE-CA-BR147	Required if CAFE Type Indicator (CA-10) = R', else not allowed.
CA-18 F	Rear Track Width (inches)	Enter the rear track width of this footprint for this model type measured in inches and rounded to one terth of an inch.	1		FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(4,1)	Decimal		4 1	0.1	999.9		Light Duty	FE CAFE		Ve	rify B	ick Pro nd exist dat	>	New LD-FE-CA-BR148	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-19 F	Footprint (square feet)	The Verify-calculated area of this footprint for this mode type according to the footprint definition specified in 49 CFR 523.2.	8		FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(4,1)	Decimal		4 1	0.1	999.9		Light Duty	FE CAFE		display it on the front end using the following equation:	rify B E	ick Pro nd exist dat		New LD-FE-CA-BR149	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
																	Poopint = (((Fiort Track Width (CA-17) + Raar Track Width (CA-16)) / 21 Monthates (CA-16) / 21 Monthates (CA-16) / 14 founded to one wounding procedures. The result should then be stored on the back and Any changes to CA-17, CA-18 or CA-16 should trigger a recelutation of the value.					
(New) T	EPA Calculated Footprint Farget GHG Value (grams ser mile)	Enter the EPA-calculated target greenhouse gas value (in grame per mile) of this footprint for this model type. The EPA-calculated value will be the official value used to calculate the GHG standard for this compliance category.			FALSE	1_n (1 for each footprint within each Model Type for this CAFE/GHG.)	N(5,2)	Decimal		5 2	0.01	999.99		Light Duty	FE CAFE		Verify should compare this value with the EPA-calculated value (CA-21.5) and report any discrepancy in the submission processing report sent to the mit. The discrepancy status should be stored and displayed on the back and.	rily Bac	kend Pre exist Dai	ing in	New LD-FE-CA-BR105	Required if Model Year >=2012
Delete: A <del>GA 21</del> F Ø	Asnufacturer Calculated Souprint Terget FE Velue miles per gallon)	Enter the associations consideration target had economy value (minites per galance) of this fooghts for this model type. The ERP extended value will be the efficial value used to calculate the CASE. Mandred for this compliance category.	FusiEconomyCAFESub mission/FusiEconomyG AFEDotale/ReformedSt andsrdCatale/ReformedSt andsrdCatalianDotal entite/NodelTypeD entite/NodelTypeFootpri ntDotalis	TargetMilesP erGellonValue	SALSE	1n (1 for each footprint within each Model Type-for this CAFE)	<del>N(5,2)</del>	Docimal		5 2	0.01	222.00		Light- Buty	FE CAFE		Varity-choide compare this value with. Vo the CPA-celester value (CA-X) and report may discorpancy in ba- exhibition processing report can be be mit The discorpancy status choude be stored and displayed on the back stat.	nity Bac Br Fi	kand Per exist nd Dat XM		Dekte LD-FE-CA-BR007a, Dekte LD-FI CA-BR007b, Dekte LD-FE-CA-BR007c	Required 2 CAPE Type Indicator (CA-16) = TY, elice and allowed.

Orange = Changes Due T Pink = TBD Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Blue = Misc Certification Red = Misc Text Edits Changes																		
																	E	Ba o ok E En	Applicable Business Rules New LD-FE-CA-BR159	
EPA Data element number Long Name	Description	Parent's Name XML Tag	Required	Multiplicity	Basic Data Type	Data Type M Description Le	Ain. Max. nath Lenath Pattern	Total Fractio Digits al Digit	0 S Min Value	Max Value	Allowed Values	Industry	Process. Example	IT Notes/Questions	Originator	Collectio S	Ei Vi Collection da Type o	d d. 16 Vali 16 dati 10 00	Applicable Business Rules	English validation rules
CAFE Information: Uniquely identifi CA-21.5 EPA Calculated Footprin Target FE Value (miles p callen)	Description dip VIII/Code + ModelYear + CAFE Compliance Catego The EPA-calculated target tuti economy value (in miles per galand) of the toophrit for this would type. This will be the official value used to calculate the CAFE standard for this compliance category.	y III	FALSE	1n (1 for each footprint within each Model Type for this CAFE.)	N(5,2)	Decimal	ngth Length Pattern	5 2	0.01	999.99		Light Duty	FE CAFE FT-14	Verify should compare this value with the mfr.calculated value (CA-21) and report	Verity	Back End	Pre- existing Data		New LD-FE-CA-BR150	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
(gancer)	standard for this compliance category.			to an on c.,										any discrepancy in the submission processing report sent to the mfr. The discrepancy status should be stored and displayed on the back end.			Assigned			
														See separate FE calculation document for the equation as well as the table of required coefficients (Section 533.3, Table V – Parameters for the Reformed CAFE FE targets) by model year. This table should be modfliable by EPA.						
														V Parameters for the Reformed CAFE FE Targets) by model year. This table should be modifiable by EPA.						
CA-21.7 EPA Calculated Footprin Target FE Discrepancy-	The EPA-calculated discrepancy between the manufacturer and EPA Target FE values.		FALSE	1_n (1 for each- footprint within each-	N(5,2)	Decimal		5 2	-999.99	220.25		Light- Duty	RE CARE	This value is the difference between the EPA feetprint target FE value (CA-21.5).	Verily	Back- End	Rra- existing-			Required # CAFS Type Indicator (CA-10) = 'R', else not allowed.
Value				Model Type for this GAFE)										and the mir footprint target FE value- (CA 21)- footprint arget FE discrepance/(alup /CA			Data			
CA-160 Manufacturer Calculated (New) Unrounded GHG Standar	Enter the manufacturer calculated unrounded GHG d standard for this compliance category.		FALSE	1 per CAFE	N(5,1)	Decimal		5 1	0.0	9999.9		Light Duty	FE CAFE	31.7) - (CA-21.5) - (CA-21)	Mr	Front	XML		New LD-FE-CA-BR154	Required if Model Year >=2012
CA-161 EPA Calculated (New) Unrounded GHG Standar	The EPA calculated unrounded GHG standard for d this compliance category.		FALSE	1 per CAFE	N(5,1)	Decimal		5 1	0.0	9999.9		Light Duty	FE CAFE		Verify	Back a	Assigned		New LD-FE-CA-BR106	Required if Model Year >=2012
CA-162 EPA Calculated (New) Unrounded GHG Standar Discrepancy Value	The EPA-calculated discrepancy between the d manufacturer and EPA calculated GHG standards.		FALSE	1_ per CAFE	N(5,1)	Decimal		5 1	-9999.9	9999.9		Light Duty	FE CAFE		Verify	Back A	Assigned		New LD-FE-CA-BR0107	Required if Model Year >=2012
CA-163 EPA Calculated Final GH (New) Standard	The EPA calculated final GHG standard for this compliance category that has been rounded to a whethe sumbars		FALSE	1 per CAFE	N(4,0)	Integer		4 0	0	9999		Light Duty	FE CAFE		Verify	Back A	Assigned		New LD-FE-CA-BR0108	Required if Model Year >=2012
CA-164 Manufacturer GHG (New) Comments CA-22.3 Manufacturer MF-	Enter any comments for this GHG.	EuroEconomic AEES: http://www.facturercf	FALSE FALSE	1 per CAFE	A(1000)	string	1 1000	7 4	0.0000	999.9699		Light Duty	FE CAFE		Mr	Front End	XML		New LD-FE-CA-BR109	Required if Model Year >=2012 Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
Calculated Unrounded Reformed CAFE Standar	Enter the manufacturer calculated unrounded reformed CAFE standard for this compliance category.	FuelEconomyCAFESubm ManufacturerC Ission/FuelEconomyCAF EDetails/ReformedStand ardCaloulationDetails e		in per con c	10(14)	Decima			0.0000	222-2222		Duty	FE CAFE			Front End	AND .		LD-FE-CA-BR018	respanse i uni si rippe nasseno (uni rej i ri, san no morno.
CA-22 EPA Calculated Unrounded Reformed CAFE Standard	The EPA calculated unrounded reformed CAFE standard for this compliance category.	FuelEconomyCAFESubm CalculatedUni Ission/FuelEconomyCAF EDetails/EPAGeneratedF medStandard uelEconomyCAFEDetails Value	FALSE	1 per CAFE	N(7,4)	Decimal		7 4	0.0000	999.9999		Light Duty	FE CAFE	See separate FE calculation document for the equation.	Verity	Back . End	Assigned		New LD-FE-CA-BR151	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-22.5 EPA Calculated Unrounded Reformed CAFE Standard Discrepancy Value	The EPA-calculated discrepancy between the manufacturer and EPA calculated reformed CAFE standards.	FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails/EPAGeneratedF uelEconomyCAFEDetails	FALSE	1 per CAFE	N(7,4)	Decimal		7 4	-999.9999	999.9999		Light Duty	FE CAFE	This value is the difference between the EPA Calculated Unrounded Reformed CAFE Standard (CA-22) and the Mfr Calculated Unrounded Reformed CAFE Standard (CA-21).	Verity	Back . End	Assigned		New LD-FE-CA-BR152	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-22.7 EPA Calculated Final														calcReformCAFEdiscrepancyValue (CA- 22.5) = (CA-22.3)					New LD-FE-CA-BR153	
CA-22.7 EPA Calculated Final Reformed CAFE Standar	The EPA calculated final reformed CAFE standard for this compliance category that has been rounded to one decimal place.	FuelEconomyCAFESubm CalculatedFina ission/FuelEconomyCAF ReformedSta EDetails/EPAGeneratedF ndardValue uelEconomyCAFEDetails	FALSE	1 per CAFE	N(4,1)	Decimal		4 1	0.0000	999.9999		Duty	FE CAFE	See separate FE calculation document for the equation.	Verity	Back . End	Assigned		New LD-FE-CA-BR153	Required if CAFE Type Indicator (CA-10) = 'R', else not allowed.
CA-23 Manufacturer Reformed CAFE Comments	Enter any comments for this reformed CAFE.	FuelEconomyCAFESubm ManufacturerF Ission/FuelEconomyCAF eformedCom EDetails/ReformedStand mentsText ardCaloulationDetails	FALSE	1 per CAFE	A(1000)	string	1 1000					Light Duty	FE CAFE		Mfr	Front End	XML			
CAFE Calculation Inform NEW Carline Manufacturer Cor CA-25.1	tion (Model Type Information — a unique combination o Enter the applicable Carline Manufacturer Code for this Model Type Index.	I CarLine, Basic Engine and Transmissi FuelEconomyCAFESubm Ission/FuelEconomyCAF	on Class (No TRUE	ote- all of the Model Type d 1n (1 for each Model Type for this CAFE.)	lescription info sul A(3)	bmitted in FE La Fixed String	bel will be used for CA	VFE, even thou	gh it is not shown	here with the CAFE	data requirements))	Light Duty	FE CAFE		Mr	Front	XML			
CA-25 Model Type Index		EDetails/CalculationDetail s FuelEconomyCAFESubm ModelTypeInc ission/FuelEconomyCAF EDetails/CalculationDetail	TRUE	1 n (1 for each Model Type for this CAFE.)	N(3)	Enumeratio			1	999			FE CAFE	Reference all model type info in FE Label via this model type index (CA-25) + mfr code (CA-0) + model year (CA-1).	Mfr	Front End	XML		LD-FE-CA-BR008	Model Type Index (CA-25) + Mfr Code (CA-0) + Model Year (CA-1) must exist in FE Label.
	category. All model type indices created in FE Label for a	EDetails/CalculationDetail		Type for the dort E.J		Integer						Duy		code (CA-0) + model year (CA-1).		LING			LDH L DH DH DH DH	Labor.
	All model type indices created in FE Label for a manufacturer and model year must be used in one of the CAFE compliance categories for that same manufacturer and model year, worept for policelemergency model types.																			
Verify-Calculated Model Type Level CA-165 EPA Calculated Baseline (New) Model Type City GHG Value 1 decimal	Relds (Intermediate Calculations) Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verify	Back a	Assigned		New LD-FE-CA-BR110	Required If Model Year >=2012
CA-166 EPA Calculated Baseline (New) Model Type Highway GH Value 1 decimal	Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verify	Back A	Assigned		New LD-FE-CA-BR111	Required if Model Year >=2012
CA-167 EPA Calculated Baseline	Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verify	Back A	Assigned		New LD-FE-CA-BR112	Required if Model Year >=2012
(New) Model Type Combined GHG Value 1 decimal	Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(4,0)	Integer		4 0	0	9999					Verily	Back A	Assigned		New LD-FE-CA-BR113	Required if Model Year >=2012
(New) Model Type Combined GHG Value Whole Numb CA-169 EPA Calculated Final	r Verify calculated intermediate calculation		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verity		Assigned		New LD-FE-CA-BR114	Required if Model Year >=2012
(New) Model Type City GHG Value 1 decimal CA-170 EPA Calculated Final	Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verily	Back A End Back A	Assigned		New LD-FE-CA-BR115	Required if Model Year >=2012
(New) Model Type Highway GH Value 1 decimal CA-171 EPA Calculated Final (New) Model Type Combined	3 Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(5,1)	Decimal		5 1	0	9999.9					Verily	End Back /	Assigned		New LD-FE-CA-BR116	Required if Model Year >=2012
(New) model 1 ype Combined GHG Value 1 decimal CA-172 EPA Calculated Final (New) Model Type Combined	Verify calculated intermediate calculation.		FALSE	1 per Model type Index	N(4,0)	Integer		4 0	0	9999					Verify	End Back /	Assigned		New LD-FE-CA-BR117	Required if Model Year >=2012
GHG Value Whole Numb CA-173 EPA Calculated Model	r Verify calculated intermediate calculation. Based on		FALSE	1 per Model type Index	N(7)	Integer		7 0	0	9999999					Verify	Back A	Assigned		New LD-FE-CA-BR118	Required if Model Year >=2012
(New) Type GHG Production Units CA-94 EPA Calculated Baseline (New) Model Type City FE Value	sales from the subconfiguration sales production units entries. Verify calculated intermediate calculation.		TRUE	1 per Model type Index	N(7,4)	Decimal		7 4	0	999.9999					Verily	End Back /	Assigned			
4 decimal CA-95 EPA Calculated Baseline (New) Model Type Highway FE	Verify calculated intermediate calculation.		TRUE	1 per Model type Index	N(7,4)	Decimal		7 4	0	999.9999					Verify	Back A	Assigned			
Value 4 decimal CA-96 EPA Calculated Baseline	Verify calculated intermediate calculation.		TRUE	1 per Model type Index	N(7,4)	Decimal		7 4	0	999.9999					Verily	Back A	Assigned			
(New) Model Type Combined Fl Value 4 decimal	Verify calculated intermediate calculation		TRUE	1 per Model two Index	N(4.1)	Decimal		4 1	0	999.9					Verity		Assigned			
(New) Model Type Combined FI Value 1 decimal																Back /				
CA-98 EPA Calculated Final (New) Model Type City FE Valu 4 decimal	versy datculated intermediate calculation.		INUE	r per model type Index	N(7,4)	Decimal		7 4	0	9999.tet					verity	Back A	signed			

	Orange = Changes Due T	0		Blue = Misc																		
Pink = TBD	New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Certification Changes						_					_							
																				Ba Ero ak at- Er End d		
EPA Data								Data Turce	Mo		Total Eraction								Colectio			
CAFE Infor	Long Name mation: Uniquely identifie	Description ed by MrCode + ModelYear + CAFE Compliance Catego Verify calculated intermediate calculation	Parent's Name Jory	XML Tag		Multiplicity 1 per Model type Index	Basic Data Type	Description	Length Le	ngth. Pattern	Total, Fraction Digits al Digits	Min Value	Max Value	Allowed Values Indu	ustry Proc	ess Example	(T Notes/Questions	Originator	n Point	Collection dati dat Type on on	Applicable Business Rules	English validation rules
(Naw)	Model Type Highway FE Value 4 decimal	Verify calculated intermediate calculation.			TRUE	1 per Model type Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back End	Assigned		
CA-100 (New)	EPA Calculated Final Model Type Combined FE Value 4 decimal	Verify calculated intermediate calculation.			TRUE	1 per Model type Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back End	Assigned		
CA-101 (New)	EPA Calculated Final Model Type Combined FE Value 1 decimal	Verify calculated intermediate calculation.			TRUE	1 per Model type Index	N(4,1)	Decimal			4 1	0	999.9					Verify	Back End	Assigned		
CA-102 (New)	Value 1 decimal EPA Calculated Model Type FE Production Units	Verify calculated intermediate calculation. Based on	,		TRUE	1 per Model type Index	N(7)	Integer		-	7 0	0	9999999					Verify	Back	Assigned		
,	Additional CAFE Base Lev	units entries. vel Info not included in Model Type Indexes (CA-25) (M	luitiple Base Levels may exi	dst within a Mo	odel Type)	Base Level is defined a	as a "unique combin	nation of Basi	c Engine, Tr	ansmission	Class and Inertia	Weight Class*.(	ref: 40 CFR 600.002)	(For IT: means a unique r	combinatio	n of BasicEngineIndex, Tra	nsmissionClassIndex and Inertia Weight)		_			
CA-25.5	Base Level Index	Assigned by Verify for each base level (i.e. inertia weight class) created by the manufacturer.	Lutiple Base Levels may exit FuelEconomyCAFES.ubm Ission/FuelEconomyCAF EDetails/CalculationDetail	n BaseLevelInde xNumber	le TRUE	<ol> <li>n (1 for each base level within a Model Type for this CAFE.)</li> </ol>	N(2)	Integer				1	99	D	ght FEC	AFE	Assigned by Verify as a sequential incrementer for each base level (i.e. inertia weight class) entered by the mfr. Data elements GL-110 through GL-116 make	Verify	Front End	XML		
CA/25.6	Inertia Weight Class	Inertia Weight Class (ref: 40 CFR 600.002-08); means	s/BaseLevelDetails	i loedia///eiobtC	C TRUE	1 n (1 for each base	N(5)	Integer				0	99999		nhr FF C	AFE	this a repeating dataset. More must order this so ERA knows which	Mfr	Front	XMI		
		the class, which is a group of test weights, into which a vehicle is grouped based on is loaded vehicle weight in accordance with the provisions of 40 CFR 86.	ission/FuelEconomyCAF EDetails/Calculation/Detail s/BaseLevelDetails	InertiaWeightC lassNumber		level within a Model Type for this CAFE.)								D	ght FEC uty		configuration and subconfiguration for which they are adding new tests for CAFE purposes.		End	XML	LD-FE-CA-BR023	
			a date contraint														GL-110					
Verily-Calc CA-174 (New)	EPA Calculated Baseline Base Level City GHG	Intermediate Calculations) Verify calculated intermediate calculation.			FALSE	1 per Base Level Index	N(5,1)	Decimal			5 1	0	9999.9		-			Verify	Back End	Assigned	New LD-FE-CA-BR155	Required if Model Year >=2012
	Value 1 decimal	Verific entrolete d'historie d'historie entroletion			-	f Dens Laural Index	N(5.1)	Destruct											Bash	And made	New LD-FE-CA-BR119	Required if Model Year >= 2012
(Naw)	EPA Calculated Baseline Base Level Highway GHG Value 1 decimal	i			TALOE	- per case Lever index	(a,a, i)	ocernal										y	End		Core-CARE 19	
CA-176 (New)	EPA Calculated Baseline Base Level Combined	Verify calculated intermediate calculation.			FALSE	1 per Base Level Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR120	Required if Model Year >=2012
	Base Level Combined GHG Value 1 decimal	Made adapted bioms				1 D												Mart			New 10	
CA-177 (Naw)	EPA Calculated Final Base Level City GHG Value 1 decimal	e versy calculated intermediate calculation.			FALSE	1 per Base Level Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR121	Required if Model Year >=2012
CA-178 (New)	EPA Calculated Final Base Level Highway GHG Value 1 decimal	e Verify calculated intermediate calculation. e			FALSE	1 per Base Level Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR122	Required if Model Year >=2012
CA-179 (New)	EPA Calculated Final Base Level Combined GHG	e Verify calculated intermediate calculation.			FALSE	1 per Base Level Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR123	Required if Model Year >=2012
CA-180 (New)	Value 1 decimal EPA Calculated Base Level GHG Production	Verify calculated intermediate calculation. Based or sales from the subconfiguration sales production	<b>1</b>		FALSE	1 per Base Level Index	N(7)	Integer			7 0	0	9999999					Verify	Back End	Assigned	New LD-FE-CA-BR124	Required if Model Year >=2012
CA-103	Units EPA Calculated Baseline Base Level City FE Value	units entries. Verify calculated intermediate calculation.			TRUE	1 per Base Level Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back	Assigned		
CA-104	4 decimal EPA Calculated Baseline	Verify calculated intermediate calculation.			TRUE	1 per Base Level Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back	Assigned		
(Naw)	Base Level Highway FE Value 4 decimal																		End			
CA-105 (Naw)	EPA Calculated Baseline Base Level Combined FE	Verify calculated intermediate calculation.			TRUE	1 per Base Level Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back End	Assigned		
CA-105	Value 4 decimal EPA Calculated Final Base	e Verify calculated intermediate calculation.			TRUE	1 per Base Level Index	N(7,4)	Decimal			7 4	0	999.9999					Verify	Back	Assigned		
(New) CA-107	Level City FE Value 4 decimal EPA Calculated Final Base	e Verify calculated intermediate calculation			TRUE	1 per Base Level Index	N(7,4)	Denimat			7 4	0	999.9999					Verify	End Back	Assigned		
(New)	Level Highway FE Value 4 decimal EPA Calculated Final Base					1 per Base Level Index	N(7.4)						999,9999						End			
CA-108 (New)	EPA Calculated Final Base Level Combined FE Value 4 decimal	e versy calculated intermediate calculation.			TRUE	r per Base Level Index	N(7,4)	Decimal			1	0	9999.9899					verify	End	resigned		
CA-109 (New)	EPA Calculated Base Level FE Production Units	Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production units entries.			TRUE	1 per Base Level Index	N(7)	Integer			7 0	0	9999999					Verify	Back End	Assigned		
CA-26	Configuration Info (Multiple Configuration Index	le Configurations may exist within a Base Level) - unique Enter the new configuration index number assigned by the manufacturer that has not already been entered in FE Label to identify each configuration within a Base	ue combination of Engine ( FuelEconomyCAFESubm	Code, Axle Rat	tio and Trans	mission Configuration w 1n (1 for each Configuration within each Base Level within a Madel Trank	vithin a Base Level N(3)	Integer			3 0	1	999	Ui Ui	ght FEC	AFE		Mfr	Front	XML		
				ndexNumber	ſ	Configuration within each Base Level within a Model Type)	1							D	uty				End		LD-FE-CA-BR024 LD-FE-CA-BR028	
		Code, Axle Ratio and Transmission Configuration. Manufacturers should assign the code as specified	gurationDetails																			
		below: 001-499: A portion of this configuration is represented																				
		by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle.	1																			
		(Formerly "DVC" (Data vehicle code) in CFEIS.)																				
CA-27	Transmission Configuration Code	Enter the Transmission Configuration Code assigned b the manufacturer for this Configuration.	y FuelEconomyCAFESubm ission/FuelEconomyCAF	Transmission Configuration	n FALSE	1n (1 for each Configuration within each	A(2)	String	1	2 [A-20- 9](1,2)				Lip	ght FEC	AFE		Mfr	Front End	XML	LD-FE-CA-BR026	+
		1 The Transmission Configuration Code is used to	EDetails/CalculationDetail Receil and Details Confi	Coniguration Code		Base Level within a Model Type)									1						LD-FE-CA-BR028	
		distinguish a unique transmission configuration within a Transmission Class. Manufacturers may assign the code alphanumerically up to two characters (e.g. '1', 'A', '12', '12', '28', etc.).	g a more services																			
		02', 'A2', '3B', etc.). 2. For a definition of Transmission Configuration, see																				
		40 CFR 600.002-08 and A/C 83A.	đ																			
		<ol> <li>This data element replaces all of the CFEIS "FR" and "FL" data elements and is functionally equivalent to the CFEIS "Transmission Configuration Link" data element</li> </ol>	L																			
CA-28	Engine Code	Enter the Engine Code for this Configuration which is used to distinguish a unique combination of displacement, fuel delivery system, calibration, emissio control, within a Engine system combination (ref: 40 CFR 600.002-08).	FuelEconomyCAFESubm ission/FuelEconomyCAF n EDetails/CalculationDetail	EngineCodeT ext	FALSE	1n (1 for each Configuration within each Base Level within a	A(14)	String	1 1	14				D	ght FEC uty	AFE		Mfr	Front End	XML	LD-FE-CA-BR026 LD-FE-CA-BR028	
						Model Type)																
CA-29	Axle Ratio	Enter the axle ratio for this Configuration.	FuelEconomyCAFESubm Ission/FuelEconomyCAF	e e	u FALSE	1n (1 for each Configuration within each	N(3,2)	Decimal			3 2	0.01	9.99	Lig Di	ght FEC	AFE		Mfr	Front End	XML	LD-FE-CA-BR026 LD-FE-CA-BR028	1
			Ission/FuelEconom/CAF EDetails/CaculationDetail s/BaseLevelDetails/Confi gurationDetails			Configuration within each Base Level within a Model Type)																
Verify-Calc	ulated Configuration Leve EPA Calculated Baseline	el Fields (intermediate Calculations) Verify calculated intermediate calculation.			FALSE	1 per Configuration	N(5,1)	Decimal			5 1	0	9999.9		-			Verify	Back	Assigned	New LD-FE-CA-BR125	Required If Model Year >=2012
(New)	Value 1 decimal					1 per Configuration Index												Verify	End			
CA-182 (New)	EPA Calculated Baseline Configuration Highway GHG Value 1 decimal	Verify calculated intermediate calculation.			FALSE	1 per Configuration Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR126	Required if Model Year >=2012
CA-183	EPA Calculated Baseline Configuration Combined GHG Value 1 decimal	Verify calculated intermediate calculation.			FALSE	1 per Configuration Index	N(5,1)	Decimal			5 1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR127	Required if Model Year >=2012
,,	GHG Value 1 decimal					index.													2.10			

ffice of Transportation and Air Qualit 6/4/201	
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Orange = Changes Due To           Pink =         New Technologies (Multi Fuels, PHEV)	o Green = Label/CAFE/GHG Changes	Red = Misc Text E	Blue = Misc Certification Changes																		
																			Ba Ero. ok		
EPA Data							Data Tura	Min May	Tot	tal. Fraction								Colectio	Ba Eto ck ck En End d. Vali Vali Collection dati dati		
CAFE Information: Uniquely identifie	Description ad by MrCode + ModelYear + CAFE Compliance Catego	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Description	Min. Max. Length Length	Pattern Digi	its al Digits	Min Value	Max Value	Allowed Values	Industry	Process Example	IT Notes/Questions	Originator	n Point	Type on on	Appricable Business Rules	English validation rules
CA-184 EPA Calculated Final (New) Configuration City GHG	Verify calculated intermediate calculation.			FALSE	1 per Configuration Index	N(5,1)	Decimal		5	1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR128	Required if Model Year >=2012
CA-185 EPA Calculated Final	Verify calculated intermediate calculation.			FALSE	1 per Configuration Index	N(5,1)	Decimal		5	1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR129	Required if Model Year >=2012
(New) Configuration Highway GHG Value 1 decimal																					
CA-186 EPA Calculated Final (New) Configuration Combined GHG Value 1 decimal	Verify calculated intermediate calculation.			FALSE	1 per Configuration Index	N(5,1)	Decimal		5		•	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR130	Required if Model Year >=2012
	Vertile calculated intermediate calculation. Based on		_	FALSE	1 per Configuration	N(7)	Integer				0	9999999					Marthy	Back	Assigned		
CA-187 EPA Calculated (New) Configuration GHG Production Units	production units from the subconfiguration production units entries.			PALOE	1 per Configuration Index	N(7)	integer		1		Ŭ	333333					veray	Back End	Assigned		
CA-110 EPA Calculated Baseline (New) Configuration City FE	Verify calculated intermediate calculation.			TRUE	1 per Configuration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
Value 4 decimal CA-111 EPA Calculated Baseline	Verify calculated intermediate calculation.			TRUE	1 per Configuration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
(New) Configuration Highway FE Value 4 decimal	E				Index													End			
CA-112 EPA Calculated Baseline (New) Configuration Combined FE Value 4 decimal	Verify calculated intermediate calculation.		-	TRUE	1 per Configuration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
FE Value 4 decimal					maex													Ena			
CA-113 EPA Calculated Final (New) Configuration City FE	Verify calculated intermediate calculation.			TRUE	1 per Configuration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
Value 4 decimal CA-114 EPA Calculated Final	Verify calculated intermediate calculation.			TRUE	1 per Configuration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify		Assigned		
(New) Configuration Highway FE Value 4 decimal					Index													Back End			
CA-115 EPA Calculated Final (New) Configuration Combined	Verify calculated intermediate calculation.			TRUE	1 per Configuration Index	N(7,4)	Decimal		7	1	0	999.9999					Verify	Back End	Assigned		
FE Value 4 decimal	Made astrological laterative				4												New	Bert			
CA-116 EPA Calculated (New) Configuration FE Production Units	Verify calculated intermediate calculation. Based on production units from the subconfiguration production units entries			TRUE	1 per Configuration Index	N(7)	integer		7	U	0	9999999					venity	Back End	Assigned		
Subconfiguration Info (Mu CA-29.5 Subconfiguration Index	production turks entrues, tiple Subconfigurations may exist within a Configurati Enter the index number assigned by the manufacturer to dentify this subconfiguration that has not already been entered in FE Label within a configuration subconfiguration index is used to identify each subconfiguration within a configuration that contains a	ion Level) - unique con	mbination of ETW	and RLHP with	hin a configuration Leve	N(2)	Integer				1	22		Links	FE CAFE		Mfr	Front	XML	LD-FE-CA-BR025	
CH-LLS Dubcolligation index	identify this subconfiguration that has not already been entered in FE Label within a configuration.	EDetails/Calculation	CAF onIndexNuml Detail er	b	Subconfiguration within each Configuration within	14(2)	maga		-		·			Duty	FE CAFE			Front End	AND A	LD-FE-CA-BR029	
	Subconfiguration Index is used to identify each subconfiguration within a configuration that contains a	s/BaseLevelDetails/C gurationDetails/SubC	Confi Confi		each Base Level within each Model Type)																
	unique combination of equivalent test weight and road load horse power.	gurationDetails																			
	Manufacturers should assign this code as specified below:																				
	01-49: for a subconfiguration represented by a test																				
	vehicle. 51-99: for a subconfiguration not represented by a test vehicle.																				
	(Formerly "RLC" (Road Load Code) in CFEIS.)																				
CA-30 Total Road Load Horsepower	Enter the total road load horsepower at 50 mph (TRLHP50).	FuelEconomyCAFES ission/FuelEconomy	Subm RoadLoadHo	FALSE	1n (1 for each Subcordiouration within	N(3,1)	Decimal		3	1	0	99.9		Light	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR027	
Horsepower	(TRDR-50).	EDetails/CalculationE s/BaseLevelDetails/C	Detail Confi	-	Subconfiguration within each Configuration within each Base Level within each Model Type)									Duty				Ena		LD-FE-CA-BR029	
		E Details/Calculation s/BaseLevelDetails/C gurationDetails/SubC gurationDetails	Confi		each Model Type)																
CA-31 Equivalent Test Weight	Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class.	Configuration CAPEC	Color Cardon Tax	st FALSE	1n (1 for each	N(5)	Enumeratio				٥	89999	1000, 1125, 1250, 1375, 1500,	Light	FE CAFE		Mfr	Front End	XML		Must be a vaild Equivalent Test Weight (ETW) within a specified Inertia Weight Class as-
(ETW)	specified Inertia Weight Class.	EDetails/Calculation s/BaseLevelDetails/ gurationDetails/SubC gurationDetails	CAF WeightValue Detail	2	Subconfiguration within each Configuration within each Base Level within each Model Type)		n						1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500,	Duty				End		LD-FE-CA-BR027 LD-FE-CA-BR029	delined in paragraph 40 CFTC 05-130
		gurationDetails/SubC gurationDetails	Confi		each Model Type)		Integer						2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500,								
													3625, 3750, 3875, 4000, 4250, 4500, 4750,								
													5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500, 10000, 10500								
													1000, 1125, 1220, 1375, 1500, 1525, 1500, 1525, 1730, 1575, 1500, 1525, 2730, 1275, 2250, 2375, 2500, 2552, 2730, 2275, 1500, 1325, 2370, 3375, 1550, 3455, 3376, 3375, 1550, 3455, 3376, 3375, 1550, 3500, 5200, 5500, 5000, 5500, 15000, 15500, 1500								
GA-33 Altitude Gode	Enter the altitude for which the vehicles within this subconfiguration are offered for sale.	FuelEconomyCAFE mission/FuelEconor	<del>:Gub</del> <del>GaleAltitudeC</del> imyC ada	9 FALSE	tn (1 for each- Subconfiguration-	*(1)	Enumeratio						A - All altitude L - Low altitude only	Light- Duty-	FE CAFE		Mir	Front- End	×ML		
Delete		AFEDotalls/Calculat etails/DaseLevelDet	tionD tella/		within each- Gonfiguration within-								H = High altitude only								
		ConfigurationDotals bConfigurationDota	sile		each Model Type)																
Verify-Calculated Subconfiguration L CA-188 EPA Calculated Baseline	evel Fields (Intermediate Calculations)			FALSE	1 per Subconfiguration	N(5,1)	Decimal				0	9999.9					Marth	Bart	Assigned	New LD-FE-CA-BR131	Required if Model Year >=2012
(New) Subconfiguration City GHG Value 1 decimal	serve successive intermediate calcolation.			I ALSE	1 per Subconfiguration Index	-4(0,1)	Cucima		,		·	2299.9					ay	Back End		CONDRIGI	
CA-189 EPA Calculated Baseline	Verify calculated intermediate calculation.			FALSE	1 per Subconfiguration	N(5,1)	Decimal		5	1	0	9999.9					Verify	Back	Assigned	New LD-FE-CA-BR132	Required if Model Year >=2012
(New) Subconfiguration Highway GHG Value 1 decimal	У				1 per Subconfiguration Index													Back End			
CA-190 EPA Calculated Final (New) Subconfiguration City	Verify calculated intermediate calculation.			FALSE	1 per Subconfiguration Index	N(5,1)	Decimal		5	1	0	9999.9					Verily	Back End	Assigned	New LD-FE-CA-BR133	Required if Model Year >=2012
GHG Value 1 decimal CA-191 EPA Calculated Final (New) Subconfiguration Highway	Verily calculated intermediate calculation.			FALSE	1 per Subconfiguration Index	N(5,1)	Decimal		5	1	0	9999.9					Verify	Back End	Assigned	New LD-FE-CA-BR134	Required if Model Year >=2012
(New) Subconfiguration Highway GHG Value 1 decimal	,				I LOCK													anu			
CA-192 EPA Calculated (New) Subconfiguration GHG	Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production			FALSE	1 per Subconfiguration Index	N(7)	Integer		7	0	0	9999999					Verify	Back End	Assigned	New LD-FE-CA-BR135	Required if Model Year >=2012
(New) Subconfiguration GHG Production Units CA-117 EPA Calculated Baseline (New) Subconfiguration City FE	units entries. Verify calculated intermediate calculation.			TRUE	1 per Subconfiguration Index	N(7,4)	Decimal		7	4	0	999.9999						Back	Assigned		
(New) Subconfiguration City FE Value 4 decimal					Index													End			
CA-118 EPA Calculated Baseline	Verify calculated intermediate calculation.			TRUE	1 per Subconfiguration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
(New) Subconfiguration Highway FE Value 4 decimal	y				index													End			
CA.119 EBA Calculated Baseline	Kerily calculated information calculation			TRUE	1 per Subspelle uniter	N(7,4)	Decimal		_			000 0000				Subconfiguration level combined from	Maghe	Bark	Assigned		
(Now) Subconfiguration- Gombined FE Value 4 docimal					Index											economy is not defined in regulation-	Verity	End			
decimal																					
CA-120 EPA Calculated Final (New) Subconfiguration City FE	Verify calculated intermediate calculation.			TRUE	1 per Subconfiguration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
Value 4 decimal CA-121 EPA Calculated Final	Verity calculated intermediate calculation.			TRUE	1 per Subconfiguration Index	N(7,4)	Decimal		7	4	0	999.9999					Verify	Back End	Assigned		
CA-120 EPA Calculated Final Subconfiguration City FE Value 4 decimal CA-121 EPA Calculated Final (New) Subconfiguration Highway FE Value 4 decimal	y				Index													End			
CA-122 ERA Calculated Final	Verily calculated intermediate calculation.			TRUS	1 per Subconfiguration Index	N(7,4)	Decimal		2	4	٥	999-9999				Subconfiguration level combined fuel-	Varity	Back.	Assigned		
CA-122 EPA Calculated Final (New) Subconfiguration Combined FE Value 4 docimal																Subconfiguration level combined fuel- oconomy is not defined in regulation- anywhere, so it was deleted					
decimal CA-123 EPA Calculated (New) Subconfiguration FE Production Units	Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production units entries.			TRUE	1 per Subconfiguration Index	N(7)	Integer		7	0	0	9999999					Verify	Back End	Assigned		
Production Units Subconfiguration production units in	units entries. formation - Within a subconfiguration, manufacturers	must report productio	on units for each co		Carline (MfrCode, DivCo	de, CarlineCode) a	nd testgroup.														

Pink = TBD	Orange = Changes Due T New Technologies (Mult Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes																		
100	1000,11024	Order in Experiorie Elonio Grangez		Changes																Em	Ba	
EPA Da																					ck En d Val	
element number CAFE In	Long Name ormation: Uniquely identifi	Description d by MrCode + ModelYear + CAFE Compliance Catego Enter the available manufactures code for this	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type. I Description Le	Min. <u>Max</u> angth Length.	Pattern Digit	al. Fraction ts al Digits Min Value	Max Value	Allowed Values	Industry	Process	Example	IT Notes/Questions	Driginator (	Point	Collection dati Type on	dati on Applicable Business Rules	English validation rules
CA-124 (New)	Manufacturer Code	Enter the applicable manufacturer code for this subconfiguration sales information.	FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/CalculationDetai	n EPAManufact urerCode	TRUE	(1 for each Subconfiguration production units row	A(3)	String	3 3	(A-20- 9](3)								Mfr	Front End	XML		
			s/BaseLevelDetails/Confl gurationDetails/SubConfl gurationDetails/SubConfl			within each Subconfiguration within each																
			gurationSalesDetails			Subconfiguration within each Configuration within each Base Level within each Model Type)																
CA-125	Division Code	Enter the applicable manufacturer code for this	FuelEconomyCAFESubn Ission/FuelEconomyCAF	n Manufacturer	TRUE	(1 for each Subconfiguration	N(2)	Integer	1 2		1	99						Mr	Front	XML		
(New)		subconfiguration sales information.	Ission/FuelEconomyCAF EDetails/CalculationDetai s/BaseLevelDetails/Confl	DivisionCode		Subconfiguration production units row within each													End			
			gurationDetails/SubConfli gurationDetails/SubConfli gurationSalesDetails			Subconfiguration within each Configuration within each Base Level within each Model Type)																
						each Base Level within each Model Type)																
CA-126 (New)	Carline Code	Enter the applicable manufacturer code for this subconfiguration sales information.	FuelEconomyCAFESub mission/FuelEconomyC	CarlineCode	TRUE	(1 for each Subconfiguration	N(3)	Integer	1 3		1	999						Mr	Front End	XML		
			AFEDetails/CalculationE etails/BaseLevelDetails/ ConfigurationDetails/Su	D /		within each Subconfiguration																
			bConfigurationDetails/S ubConfigurationSalesD tails	6		production units row within each Subconfiguration within each Configuration within each Base Level within each Model Type)																
CA-34	Test Group	Enter the applicable test group name for this	FueFconomyCAFESthe	n TestGroupNa	TRUE	each Model Type)	A(12)	String	12 12	A-HJ-				Light	FF CAFE		TG-2, GL-126	Mfr	Front	XML		TestGroup must have already been certified.
	(This was moved from th subconfiguration level)	Enter the applicable test group name for this subconfiguration.	FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/CalculationDetai s/Basel evelDetails/Confl	me		Subconfiguration within each				A-HJ- NPR-TV- Y1- JJ[1]]A-				Light Duty					End		LD-FE-CA-BR009	
	subcomiguration levely		gurationDetails/SubConfli gurationDetails/SubConfli gurationDetails/SubConfli			each Base Lovel within each Model Type) (1 for each				20- 0](4,11)( \\.][A- 20-												
						Subconfiguration				20- 9[(1,6])?												
						production units row within each Subconfiguration within each																
						Subconfiguration within each Configuration within each Base Level within each Model Type)																
193	Manufacturer Subconfiguration Final Model Year GHG Production Units	Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. This will be used in the GHG calculations	-		FALSE	(1 for each Subconfiguration production units row	N(6)	integer				202020		Duty	FE CAFE		Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that		End	XML	New LD-FE-CA-BR136	Required if Model Tear >=2012
	Production Units					within each Subconfiguration within each											apply to the GHG/CREE calculation. LE. emergency vehicles, sales in U.S. Territories, etc. The GHG sales will be added in Phase 2.					
						Subconfiguration within each Configuration within each Base Level within each Model Type)											added in Phase 2.					
CA-32	Manufacturer	Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. In This will be used in the CAFE calculations.	FuelEconomyCAFESubn	n SubConfigura	TRUE	t <del>un (1 for each-</del>	N(6)	Integer			1	999999		Light Duty	FE CAFE		Note to CSC: The production units that	Mfr	Front	XML	LD-FE-CA-BR019	
	Manufacturer Subconfiguration Final Model Year FE Productio Units		FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/Calculation/Detai s/BaseLevelDetails/Confl guration/Details/SubConfl	IYearProducti onNumber		within each- Configuration within-								Duy			Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. LE. emergency vehicles, sales in U.S. Territories, edt. The GHG sales will be added in Phase 2.		Ling		LOI C-ONDIOIS	
	(This was moved from th subconfiguration level an	e d	gurationDetails/SubConfli gurationSalesDetails			each Base Level within each Model Type) (1 for each Subconfiguration											Territories, etc. The GHG sales will be added in Phase 2.					
	(This was moved from th subconfiguration level an renamed to incl "FE" to distinguish it from GHG production units (will be added in Phase 2))					production units row within each																
	added in Phase 2))					Subconfiguration production units row within each Subconfiguration within each Configuration within each Base Level within each Model Type)																
						each Base Level within each Model Type)																
Test Ve	icle Info (Multiple vehicles	with multiple tests may exist within a sub-configuration Enter an applicable Test Number for this CAFE that was previous) assigned by Vertly in Test Information. Test Number must be entered within Subordinguration Index (CA-28) is 1 to 48 and Configuration Index (CA-28) is 1 to 490 within Indexton that the subconfiguration to represented by a tested vehicle.		n TestN mherid	FALSE	A a (Alexandr Tart	A(12)	String						Links.	FF OAFF		Ti-2, GL-127	Mfr	-	XMI		Test Number must exist in Verify Test Info
CA-35	Test Number	Enter an applicable 1 est Number for this CAFE that was previously assigned by Verify in Test Information. Test Number must be entered when Subconfiguration Index	EDetails/CalculationDetail	n lestNumberid entifier	FALSE	1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(12)	ating						Light Duty	FE CAFE		114, 66-127	MIT	Front End	XML	LD-FE-CA-BR010 LD-FE-CA-BR011a LD-FE-CA-BR011b	I est Number must exert in Vehry I est Into. Test Number must be present when Subcortiguration Index (CA-29) is 1 to 49 and Configuration Index (CA-26) is 1 to 499 which indicates that the subconfiguration is represented by a tosted vehicle.
		(CA-29) IS 1 to 49 and Congutation Index (CA-26) IS 1 to 499 which indicates that the subconfiguration is represented by a tested vehicle.	gurationDetails/SubConfi gurationDetails/TestVehi	i i		each Base Level within each Model Type)															LD-FE-CA-BR011c	Configuration index (L4-26) is 1 to 449 which indicates that the subconfiguration is represented by a tasted vehicle. Test Category for this Test Number must = "FTP", USD6, "SC03", 'COLD' or 'HWY'.
			leDetails																		LD-FE-CA-BR012a LD-FE-CA-BR012b LD-FE-CA-BR020 LD-FE-CA-BR030	Test Category for this Test Number must = "FTP", 'US06', 'SC03', 'COLD' or 'HWY'.
CA-36	Vehicle ID	A unique alphanumeric identifier assigned by the manufacturer to each test vehicle			FALSE	1n (1 for each Test within each	A(20)	String	1 20					Light Duty	FE CAFE		Find Vehicle ID' (TI-4) via Test Number (GL-127).	Verify	Back End	Pre- existing data	LD-FE-CA-BR030	
						1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within											TI-4> VI-3			data		
						each model type)																
CA-37	Vehicle Configuration Number	A number previously assigned to specify a unique test vehicle configuration.			FALSE	1n (1 for each Test within each Subconfiguration within	N(2)	Integer			0	99		Duty	FE CAFE		Find Vehicle Configuration Number' (TI-5) via Test Number (GL-127).	Verify	Back End	Pre- existing data		
						1 (1 for each 1 est within each Subconfiguration within each Configuration within each Base Level within each Model Type)											TI-5 → VI-4					
C4-39	Analytically-Derived	The fuel economy values for this vehicle that account of					A(1)	Enumeratio					N=No	Lintz	FE CAFE			Verify	Back	Pre-		
	Analytically-Derived FE/CREE Indicator	The fuel economy values for this vehicle that represent a sub-configuration were generated by an EPA-approved analytical/entwerd method, in lieu of testing (ref: 40 CPR 600.006(e) and CCD-04-06). The number of ADFE must be no more than 20% of the subconfigurations tested in CAFE (ref: CD-04-06).				1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)		n					N=No Y=Yes	Light Duty	- JANE			· y	Back End	Pre- existing data		
		ADFE must be no more than 20% of the subconfigurations tested in CAFE (ref: CD-04-06).				each Base Level within each Model Type)																
CA-39	Data Substitution Indicate	Finter the applicable Data Substitution Indicator for this	FuelEconomyCAFESubn ission/FuelEconomyCAF	n DataSubstituti orindicator	FALSE	1n (1 for each Test	A(1)	Enumeratio	+		+ +		N = No Y = Yes	Light Duty	FE CAFE			Mfr	Front	XML		
		Hint.	EDetails/CalculationDeta s/BaseLeveIDetails/Confl	48 5		1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)		n					T = TOS	Duty					end			
			gurationDetails/SubConfi gurationDetails/TestVehin leDetails			each Model Type)																
CA-40	Averaging Method	Enter the Averaging Method to be used if this Test Number is part of an averaging group (i.e., subconfiguration explands with a multi-mode manufacture explands and a multi-mode manufacture of this indicator Light), where: N = No averaging (Sum(n+15 n (FET(i))*WT(i))) H = Harmonic averaging (Sum(n+15 n) (FET(i))*WT(i)))	FuelEconomyCAFESubn Ission/FuelEconomyCAF	n AveragingMet hodIdentifier	FALSE	1n (1 for each Test within each	A(1)	Enumeratio n		+			N = No averaging S = Simple averaging (Sum(i=1 to	Light Duty	FE CAFE			Mfr	Front End	XML	New LD-FE-CA-BR137	If Model Year >= 2011 then "\$" (Simple Averaging) is not allowed.
		succentiguration equipped with a multi-mode transmission or Shift Indicator Light), where: N = No averaging	s/BaseLevelDetails/Confi gurationDetails/SubConfi			1 (1 for each lest within each Subconfiguration within each Configuration within each Base Level within each Model Type)							N = No averaging S = Simple averaging (Sum[i=1 to n) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))									
		IS = Simple averaging (Sum(i=1 to ri) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to ri) (FET(i) / WT(i)))	gurationDetails/TestVehi leDetails	c		each Model Type)																
		Note: WT(i) = Averaging Weighting Factor (GL-135) of the MPG value, specified by the manufacturer based on EPA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A); and, FET(i) = MPG of test.																				
		EMA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A); and, FET(i) = MPG of test.																				
	1		1					1				1	1	1	1							

Pink TBC	Orange = Changes Due To New Technologies (Multi Fuels, PHEV)	Green = Label/CAFE/GHG Changes	Red = Misc Text Edits	Blue = Misc Certification Changes															
EPA D elemen CAFEI CA-41	ormation: Uniquely identifie	Cescritotoo Star MinCode = ModelYear = CAFE Compliance Catago Enter Rie Averaging Group Induced star group by the te ame test processing the met ob is averaged	Parent's Name cy FueEconomyCAFESubm issionFueEconomyCAF Eberaite/CataforDetait	upIndicator	Multiplicity 1 (1 for each Test within each Subconfiguration within	Basic Data Type A(1)	Data Type, Min, Max Description Length Lengt String 1 1	h. Pattern Digits al Digits (A-20-9)	Min Value	Max Value	Allowed Values	Industry Process Ught FE CAFE Duty	Example	IT Notes/Durations	<u>Originator</u> Mfr	Collectio n Point Front End	Collection dati Type on XML	aa ke G d d aa Applicable Rusiness Rules D LD-FE-CA-BR013	English websites nates Mar not be orthough & Asserging Mathod (CA-40) = Yr.
		together.	s/BaseLevelDetails/Confi gurationDetails/SubConfi gurationDetails/TestVehic leDetails		each Corfiguration within each Base Level within each Model Type)														
CA-42	Factor	Enter the avenaging weighting factor for this vehicle mpg if equipped with either Shift Indicator Light (SIL) or multi- mode transmission. (Formerly Test Group Weighting in CFEIS).	FuelEconomyCAFESubm ission/FuelEconomyCAF EDetails/CalculationDotail s/BaseLevelDetails/Confi gurationDetails/SubConfi gurationDetails/TestVehic leDetails	ghtingFactorV alue	1n (1 for each Test within each Subcordiguration within each Cordiguration within each Base Level within each Model Type)	N(3,2)	Decimal	3 2	0.01	0.99		Light FE CAFE Duty			Mfr	Front End	XML	LD-FE-CA-BR014	Must be present if Averaging Method (CA-40) -> Y.

EPA Data Element							Basic Data	Data Type	<u>Min</u>	Max		Total	Fractional		Max						Collection		
Number IUVP Vehic	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Length	Length	Pattern	Digits	Digits	Value	Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Point	<u>Type</u>	Applicable Business Rules
IV-1	Process Code	Select the desired process code for the current submission.	InUseVerificationProgra mSubmissionVehicleInfo mationDetails or InUseVerificationProgra mSubmissionVehicleDei eteReportDetails		TRUE		A(1)	Enumeration								N = New Vehicle Submission C = Correction Vehicle Submission D = Delete Vehicle Submission R = Request Report of Vehicle Submission	Light-Duty	IUVP		Manufacturer	Front End	XML	N-BR25
																							LD-IUVP-IV-BR001a
N-2	Manufacturer Code (key field)	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	eteReportDetails InUseVerificationProgra	I EPAManufacturer Code	TRUE		A(3)	Fixed String	3	3	[A-Z0- 9]{3}	3					Light-Duty	UVP		Verify	Front End	XML	LD-IUVP-IV-BR001b LD-IUVP-IV-BR002 LD-IUVP-IV-BR003a LD-IUVP-IV-BR003b LD-IUVP-IV-BR006 LD-IUVP-IV-BR006 LD-IUVP-IV-BR009 LD-IUVP-IV-BR010
IV-3	Vehicle Identification Number (ke field)	Enter the 17-character vehicle identification number (VIN) found y under the windshield glass on the driver's side of the dashboard.	mSubmission/VehicleInfo rmationDetails or InUse/VerificationProgra mSubmission/VehicleDel eteReportDetails		TRUE		A(17)	String	17	17		17	0				Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b LD-IUVP-IV-BR002
10-3	neid)	driver's side of the dashboard.	eteReportDetails	oninumberiext	TRUE		A(17)	String	17	17		17	0				Light-Duty	IUVP		Manuracturer	Front End	AML	LD-IUVP-IV-BR002
₩-4	Emission Program (Key field)	Select the applicable in-use emission program for this test	hUseVerificationProgra mSubmissionVehicleMo mationDetails or MuSeVerificationProgra eteReportDetails	EmissionProgram	TRUE		A(4)	Enumeration								LVB = Used to meet both EPA and California UVP equiaments UVE = Used to meet EPA UVP requirements (mh) UVC = Used to meet California UUP requirements (mh) UCP requirements (mh) UCP = Nadot to meet California UCP requirements (mh) UCP = Used to meet California UCP requirements (mh) UCP = USP = US	Light-Duty	UVP		Manufacturer	Front End	XML	LD-IUVP-N-BR001a LD-IUVP-N-BR001b LD-IUVP-N-BR002
		A code that may be assigned by	InUseVerificationProgra																				
IV-5	EPA Investigation Number	EPA to an in-use test program- Does not apply to mfr-IUVP data.	mSubmission/VehicleInfo rmationDetails	Number	FALSE	01	A(10)	String		10		10	0				Light-Duty	IUVP		EPA/CARB	Back-end	XML	
	Test Group Name	Enter the Test Group Name for this test vehicle.	InUseVerificationProgra	TestGroupName			A(12)	Fixed string	12	12	[A-HJ- NPR-TV- 9]{1][A- 20- 9]{4,11]{[[V] \]][A-20- 9]{1][A- 20- 9]{1][A- Z0- 9]{4][A- Z0- 9]{4][A- Z0- 9]{4][A-						Light-Duty	UVP		Manufacturer			LD-IUVP-W-BR004 LD-IUVP-W-BR007 LD-IUVP-W-BR009 LD-IUVP-W-BR005 LD-IUVP-W-BR005
№-7	Evaporative Family Name	Family Name for this test vehicle.	rmationDetails	ingFamilyName	FALSE	01	A(12)	Fixed String	12	12	Z0-9]{3}						Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR010
N-8	Model Year	The model year for this test vehicle configuration. Errer the applicable engine	InUseVerificationProgra mSubmissionVehicleNor mationDetails PUseVerificationProgra	ModelYear	TRUE		N(4)	Year type (1970- 2100)						1970	2100		Light-Duty	IUVP		Manufacturer	Front end	XML	LD-UVP-W-BR007 LD-UVP-W-BR008 LD-UVP-W-BR024a LD-UVP-W-BR024b
IV-9	Displacement	displacement in liters for this test vehicle.	mSubmission/VehicleInfo rmationDetails	entValue	TRUE		N(6,3)	Decimal				5	3	0.001	99.999		Light-Duty	IUVP	For any back-end	Manufacturer	Front End	XML	
N-10	Division Code (Make)	Enter the division/make code for this test vehicle.	hUseVerificationProgra mSubmissionVehicleInfo rmationDetails	ManufacturerDivis ionCode	TRUE		N(2)	Integer	2	2				0	99		Light-Duty	IUVP	reports/views/queries, always display both the division code and the division name. For any back-end reports/views/queries, always display both the	Manufacturer	Front End	XML	LD-IUVP-N-BR011
IV-11	Carline Code (Model)	Enter the applicable carline code for this test vehicle.	mSubmission/VehicleInfo rmationDetails	CarlineCode	TRUE		N(3)	Integer	3	3				0	999		Light-Duty	IUVP	carline code and the carline name.	Manufacturer	Front End	XML	LD-IUVP-IV-BR012
<b>№-12</b>	Verify Division/Make Name	Verify Entry of the Division Name/Make for this test vehicle.	InUseVerificationProgra mSubmission/VehicleInfo rmationDetails	VerifyDivisionMak eName	TRUE		A(20)	String									Light-Duty	IUVP		Verify	Back-end	XML	
	Verify Carline Name	Verify Entry of the Carline Name for this test vehicle.	InUseVerificationProgra mSubmission/VehicleInfo rmationDetails	VerifyCarlineNam e	TRUE		A(32)	String									Light-Duty			Verify	Back-end	XML	
	Division Name (Make)	Enter the Division Name/Make for this test vehicle.	InUseVerificationProgra	DivisionMakeNam			A(20)	String									Light-Duty			Manufacturer		XMI	
iv-12a	Invision mame (Make)	juna test venicie.	mauonDetails	e	INUE	I	A(20)	ouing	1	1	1	1				U	Leight-Duty	UVP	1	wanuacturer	riunt-end	AWL	

EPA Data							Basic															
Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Type	Data Type Description	Min Length	Max Length	Pattern Digi		al <u>Min</u> Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Collection Point	Collection Type	Applicable Business Rules
IUVP Vehi	cle Information		InUseVerificationProgra																			
IV-13a	Carline Name (Model)	Enter the Carline Name for this test vehicle.	mSubmission/VehicleInfo rmationDetails	CarlineName	TRUE		A(32)	String								Light-Duty	IUVP		Manufacturer	Front-end	XML	
		Enter the trim level for this test vehicle (i.e., Super Cab, EXT,	InUseVerificationProgra mSubmission/VehicleInfo																			
N-14	Trim Level	etc.)	rmationDetails	TrimLevelText	FALSE	01	A(20)	String				_				Light-Duty	IUVP		Manufacturer	Front End	XML	
		Enter the optional manufacturer vehicle model name. This is not a	In Inc.) (orificationDrogram																			
	Mfr Vehicle Model Name	required field and may be used at	mSubmission/VehicleInfo	VehicleModelNam	FALSE	0.1	A(20)	String								Light Duty	IUVP		Manufacturer		XML	
IV-15	Mfr Vehicle Model Name	the manufacturer's discretion.	rmationDetails InUseVerificationProgra	e	FALSE	01	A(20)	String								Light Duty	IUVP		Manufacturer	Front end	XML	
IV-16	Vehicle Procured Sales Area	Sales area from where the vehicle is obtained.	rmationDetails	alesArealdentifier	TRUE		A(2)	Enumeration							CA = California FA = Federal	Light-Duty	IUVP		Manufacturer	Front End	XML	
		Select the state from which this	InUseVerificationProgra mSubmission/VehicleInfo	VehicleProcuredS	TRUE										Provide a full list of state abbreviations for		UVP					
N-17	Vehicle Procured State	test vehicle was procured.	rmationDetails InUseVerificationProgra	tateldentifier	TRUE		A(2)	Enumeration							the United States.	Light-Duty	IUVP		Manufacturer	Front End	XML	
IV-18	Vehicle Procured Altitude	Altitude of area from where the vehicle is obtained.	mSubmission/VehicleInfo rmationDetails	ltitudeIndicator	TRUE		A(1)	Enumeration							L = Low H = High	Light-Duty	IUVP		Manufacturer	Front End	XML	
		Climate of the area from where	InUseVerificationProgra mSubmission/VehicleInfo	VehicleProcuredC											W = Warm area							
IV-19	Vehicle Procured Climate	the vehicle is obtained	InUseVerificationProgra	limateIndicator	TRUE		A(1)	Enumeration				-			C = Cold area	Light-Duty	IUVP		Manufacturer	Front End	XML	
			mSubmission/VehicleInfo rmationDetails or												H=High mileage (minimum of 50,000							LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b
		The mileage category of this test	InUseVerificationProgra mSubmission/VehicleDel	MileageCategory											miles) L = Low mileage (minimum of 10,000							LD-IUVP-IV-BR002 LD-IUVP-IV-BR024a
N-20	Mileage Category	vehicle.	eteReportDetails	ndicator	TRUE		A(1)	Enumeration							miles) Y = Yes, vehicle used to meet 75% of	Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR024b
															useful life requirement and odometer > 75% of useful life							
															L = Yes, vehicle used to meet 75% of							
			InUseVerificationProgra	SeventyFivePerce											useful life requirement but odometer < 75% (Requires EPA/CARB approval)							
IV-21	75% Useful Life	Is this vehicle being used to meet the 75% useful life requirement?	rmationDetails	ntUsefulLifeIndicat or	TRUE		A(1)	Enumeration							N = No, vehicle not used to meet 75% of useful life requirement	Light-Duty	IUVP		Manufacturer	Front End	XML	
		Enter the odometer reading (in miles) at the time of the vehicle	InUseVerificationProgra mSubmission/VehicleInfo	OdometerStartVal																		
IV-22	Odometer at time of Procurement	procurement	rmationDetails	ue	TRUE		N(7,1)	Decimal	1	7	7	1			A = Automatic	Light Duty	IUVP		Manufacturer	Front End	XML	
															AM = Automated Manual M = Manual			This field was added to				
															SA = Semi-Automatic CVT= Continuously Variable			be consistent with				
			InUseVerificationProgra												SCV=Selectable Continuously			transimission info in certification/confirmator				
N-23	Transmission Type?	Enter the transmission type for this test vehicle configuration.	mSubmission/VehicleInfo rmationDetails	TransmissionType Identifier	TRUE		A(3)	Enumeration							Variable (e.g. CVT with paddles) OT = Other	Light Duty	IUVP	y test vehicle information.	Manufacturer	Front end	XML	LD-IUVP-IV-BR015
																		This field was added to be consistent with				
		Enter a description of the	InUseVerificationProgra															transimission info in certification/confirmator				
N-24	Transmission Type Other Description?	transmission type if "Other" is selected	mSubmission/VehicleInfo rmationDetails	TransmissionType OtherText	TRUE		A(30)	String	1	30						Light Duty	UVP	y test vehicle	Manufacturer	Front end	ХМІ	LD-IUVP-IV-BR013a LD-IUVP-IV-BR013b
							(											This field was added to be consistent with				
		Is the transmission on this test	InUseVerificationProgra															transimission info in certification/confirmator				
		vehicle configuration equipped	mSubmission/VehicleInfo	TransmissionLock											Y=Yes			y test vehicle				
IV-25	Transmission Lockup?	with lockup?	rmationDetails	upIndicator	TRUE		A(1)	Enumeration							N=No	Light Duty	IUVP	information. This field was added to	Manufacturer	Front end	XML	LD-IUVP-IV-BR014
																		be consistent with transimission info in				
		Is the transmission on this test vehicle configuration equipped	InUseVerificationProgra mSubmission/VehicleInfo	TransmissionCree											Y=Yes			certification/confirmator y test vehicle				
IV-26	Creeper Gear?	with a creeper gear?	rmationDetails	perGearIndicator	TRUE		A(1)	Enumeration							N=No	Light Duty	IUVP	information.	Manufacturer	Front end	XML	
		Enter the number of transmission gears on this test vehicle																This field was added to be consistent with				
		configuration. If this vehicle is equipped with a "transmission	InUseVerificationProgra															transimission info in certification/confirmator				
N-27	Number of Transmission Gears?	type" of "CVT", enter "1" for the number of gears.	mSubmission/VehicleInfo rmationDetails	TransmissionGear Count	TRUE		N(2)	Integer					1	99		Light Duty	UVP	y test vehicle	Manufacturer	Front end	XMI	LD-IUVP-IV-BR016
10-27	Number of transmission dears?		InUseVerificationProgra	Count	TRUE		19(2)	neger						99		Light Duty	IUVF	mornauon.	Manuacturer	FIOILEID	AIVIL	LD-IOVF-IV-BR010
IV-28	Tire Size	Enter the tire size for this test vehicle.	mSubmission/VehicleInfo rmationDetails	TireSizeText	FALSE	01	A(12)	String								Light Duty	IUVP		Manufacturer	Front end	XML	
		Enter the axle ratio for this test	InUseVerificationProgra mSubmission/VehicleInfo															1				
IV-29	Axle Ratio	vehicle.	rmationDetails InUseVerificationProgra	AxleRatioValue	FALSE	01	N(3,2)	Decimal			3	2	0.00	9.99		Light Duty	IUVP		Manufacturer	Front end	XML	
IV-30	Engine Code	Enter the engine code for this test vehicle.	mSubmission/VehicleInfo rmationDetails	EngineCodeText	FALSE	01	A(14)	String								Light Duty	IUVP		Manufacturer	Front end	XML	
	-														1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875,							
															2000, 2125, 2250, 2375, 2500, 2625,			1				
															2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625,			1				
															3750, 3875, 4000, 4250, 4500, 4750,			1				
															5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500,			1				
			InUseVerificationProgra mSubmission/VehicleInfo	EquiplentTeeller											9000, 9500,10000, 10500, 11000, 11500, 12000, 12500,			1				
IV-31	ETW	Equivalent Test Weight in pounds	mSubmission/VehicleInfo rmationDetails		FALSE	01	l(5)	Enumeration							11000, 11500, 12000, 12500, 13000, 13500, 14000	Light Duty	IUVP		Manufacturer	Front end	XML	

EPA Data Element						Basic Data	Data Type	Min	Max		Total	Fractional	Min	Max						Collection 0	Collection	
Number         Long Name           IUVP Vehicle Information	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Length	Length	Pattern	Digits	Digits	Value	Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Point	Туре	Applicable Business Rules
N-32 Date of Inspection	Enter a valid calendar date that the inspection was conducted.	hUseVerificationProgra mSubmissionVehicleMo rmationDetails	VehicleInspection Date	FALSE	01	D(8)	Date			[1-2]{1]{0- 9]{3}{0- 1]{1}{0- 9]{1}{0- 3]{1}{0- 3]{1}{0- 9]{1}						Light Duty	IUVP		Manufacturer	Front end	XML	LD-IUVP-IV-BR017
	Enter the valid calendar date on						_			[1-2]{1]{0- 9]{3}{0- 1]{1}{0- 9]{1}{0- 3]{1}{0- 3]{1}{0-												LD-IUVP-IT-BR019a
IV-33 Build Date	which this test vehicle was built. Is the MIL dashboard bulb illuminated (during key-on/engine	rmationDetails InUseVerificationProgra mSubmission/VehicleInfo	VehicleBuiltDate VisualMalfunction			D(8)	Date			9]{1}					Y = MIL Dashboard Bulb Illuminated	Light Duty	IUVP		Manufacturer	Front end	XML	LD-IUVP-IT-BR019b
IV-34 Visual MIL Status	off)?	rmationDetails InUseVerificationProgra	LightIndicator	FALSE		A(1)	Enumeration								N = MIL Dashboard Bulb Not Illuminated	Light Duty	IUVP		Manufacturer	Front end	XML	
IV-35 Commanded MIL Status	Is the MIL commanded "On"?	mSubmission/VehicleInfo rmationDetails	nctionLightIndicat or	TRUE		A(1)	Enumeration								Y = MIL commanded on N = MIL commanded off	Light Duty	IUVP		Manufacturer	Front end	XML	
N-36 Active Trouble Codes Status	Are there any active trouble code present during the initial inspection? Enter all applicable 5-digit OBD	s InUseVerificationProgra mSubmission/VehicleInfo rmationDetails	ActiveTroubleCod eIndicator	TRUE			Enumeration								Y = Active Trouble Codes Present N = No Active Trouble Codes Present	Light Duty	IUVP		Manufacturer	Front end	XML	LD-IUVP-IV-BR018
N-37 Trouble Codes	diagnostic trouble codes. For example, P0### or P1###.	InUseVerificationProgra mSubmissionVehicleInfo rmationDetails	ActiveTroubleCod e	FALSE	010	A(5)	Fixed String	5	5	[A-Z0- 9]{5}	5					Light Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR019a LD-IUVP-IV-BR019b
IV-38 Readiness Status Complete?	Are all the readiness monitors complete?	InUseVerificationProgra mSubmission/VehicleInfo rmationDetails	ReadinessStatus CompleteIndicator	TRUE		A(1)	Enumeration								Y = all readiness monitors are complete N = not all readiness monitors are complete	Light Duty	IUVP		Manufacturer	Front end	XML	
incomplete Readiness Status IV-39 Codes	Enter the readiness monitors that are incomplete? Select all that apply.	mSubmission/VehicleInfo			07		Enumeration								CAT = Catalyst O2 = Oxygen Sensor EGR = Exhaust Gas Recirculation EVAP = Exeporative System HO2 = Oxygen Sensor Heater SECA = Secondary Air O1 = Other (must enter a description in the Vehicla Comment field if "Other" selected.				Manufacturer		XML	LD-IUVP-IV-BR020a LD-IUVP-IV-BR020b
	Enter the applicable rejection code (after the initial inspection) for this test vertice.	hUseVerificationProgra mSubmissionVehicleKo mationDetails	VehicleRejection Code	TRUE		1(2)	Enumeration	1	2						0 = Vehicle was not rejected 1 = Odometer inoperative, replaced or out of range 2 = Emissions estimation and the second baseling and the second second second second 3 = Severe dut opceration (trailer toxing pass, cars), snow powing, racing) 4 = Extensive collision repair or major angine repair/rebuilding 5 = Ominous notises or serious teaks from engine, transmission and oxinuut 6 = Vehicle unaside for testing 7 = ML light flashing (severe misfire indication) 8 = Other reason for rejection (requires EPACARB aproval)	Light Duty	LVP		Manufacturer	Front End	XML	
	If "01" through "08" was selected																					
V-41 Vehicle Rejection Comments	for the Vehicle Rejection Code, enter an explanation of the reason this test vehicle was rejected.	InUseVerificationProgra mSubmission/VehicleInfo rmationDetails	VehicleRejection CommentText	FALSE		A(500)	String	1	500							Light Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR022
N-43 Air Aspiration Method	Enter the applicable air aspiration method for this test vehicle configuration.			TRUE		A(2)	Enumeration								NA=Naturally aspirated TC=Turbocharged SC=Supercharged TS=Turbocharged+Supercharged OT=Other	Light-Duty			Manufacturer		XML	
N-44 Test Drive Code	Enter the applicable test drive code for the way this test vehicle configuration was/is to be tested.	hUseVerificationProgra mSubmissionVehiclehto rmationDetails InUseVerificationProgra	TestDriveCode	TRUE		A(1)	Enumeration								1 = Rear Drive Steering Left 2 = Rear Drive Steering Right 3 = Front Drive Steering Left 4 = Front Drive Steering Left 5 = Four Wheel Drive Steering Right 6 = Four Wheel Drive Steering Right 7 = Rear Drive Off Road 9 = Other	Light-Duty			Manufacturer		XML	
N-42 IUVP Vehicle Comments	Enter any additional comments regarding this test vehicle.	InUseVerificationProgra mSubmission/VehicleInfo rmationDetails InUseVerificationProgra	VehicleComment Text	FALSE		A(1000)	String	1	1000							Light Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR021
IV-45 Deletion Reason	The reason for deleting the vehicle submission	mSubmission/VehicleDel eteReportDetails		FALSE	01	A(500)	String	1	500							Light Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IV-BR023

EPA Data Element			Parent's				Basic Data	Data Type	Min	Max.		Total	Fractiona	Min						Collection Collecti Point on Type	
Number IUVP Tes	Long Name t Information	Description	Name	XML Tag	<u>Required</u>	Multiplicity	Type	Description	Length L	ength	Pattern	Digits	Digits	Value Max Value	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collection. Collecti Point on Type	Applicable Business Rules
<u>IT-1</u>	Process Code	Select the desired process code for the current submission.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cation/Test DeleteRep ortDetails InUseVerifi	TestProcessCode	TRUE		A(1) I	Enumeration							N = New Test Submission G = Correction Test Submission D = DeleteT est Submission R = Reguest Report of Test Submission	Light-Duty	IUVP	Note to CSC: Use the same list of process codes for all Verify Light-Duty data submissions. Need to discuss the report function for mfrs.	Manufacturer	Front End XML	
IT-2	Manufacturer Code (key field)	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ortDetails InUseVerifi cationProg	EPAManufacturerCode	a TRUE		A(3)	Fixed String	3	3	[A-Z0- 9]{3}	3				Light-Duty	IUVP		Verify	Front End XML	LD-IUVP-IT-BR001a LD-IUVP-IT-BR002 LD-IUVP-IT-BR002 LD-IUVP-IT-BR003a LD-IUVP-IT-BR003a LD-IUVP-IT-BR004b LD-IUVP-IT-BR005a LD-IUVP-IT-BR005a LD-IUVP-IT-BR013
<u> </u>	Vehicle Identification Number (key field)	Enter the 17-character vehicle identification number (VIN) found under the windshield glass on the driver's side of the dashboard.	ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi ssion/Test DeleteRep ortDetails	VehicleIdentificationNu mberText	J TRUE		A(17)	String	17	17		17	0		ILVB = Used to meet both EPA and California IUVP requirements	Light-Duty	IUVP		Manufacturer	Front End XML	LD-UVP-IT-BR001a LD-UVP-IT-BR001a LD-UVP-IT-BR002a LD-UVP-IT-BR003a LD-UVP-IT-BR003b
<u> </u>	Emission Program (key field)	Select the applicable in use emission program for this test.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi n-ssion/Test DeleteRep ortDetails	EmissionProgramIdenti fier	i TRUE		A(4)	Enumeration							IUVE - Lubad to meet EPA IUVP requirements (ml) IUVC - Evado to meet California IUVP requirements (ml) IUVC = used to meet California IUVCP requirements (ml) IUCE - Lubad to meet California IUVCP IUCE - Lubad to meet California IUVCP requirements (ml) IUCE - Lubad to meet California IUVCP requirements (ml) ICC - Lubad to meet California IUVCP requirements (ml) IUCE - Lubad to meet C	) B.	IUVP		Manufacturer	Front End XIIL	LD-UVP-IT-BR001a LD-UVP-IT-BR001a LD-UVP-IT-BR003a LD-UVP-IT-BR003a LD-UVP-IT-BR003b
IT-5	Verify Test # (key field)	Each separate test for a specific VIN should have a unique test number assigned by Verify.	cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg	VerifyTestNumber	TRUE		1(7)	Integer								Light-Duty	IUVP	Verify should assign a sequential test number to all light-duty tests submitted to Verify (cert, fuel economy, EPA confirmatory test, IUVP, EPA in-use, etc.)	Verify	Back-end XML	LD-ILIVP-IT-BR001a LD-ILVP-IT-BR001b LD-ILVP-IT-BR002 LD-ILVP-IT-BR006a LD-ILVP-IT-BR006b LD-ILVP-IT-BR006c
IT-6	Manufacturer/LOD Test #		cationProg ramSubmi ssion/Testl nformation Details	LODMfrTestNumberTe xt	TRUE		A(20)	String	1	20						Light-Duty	IUVP		Manufacturer	Front End XML	
<u>IT-7</u>	Test Laboratory Code	Enter the two-digit Verify test laboratory code (assigned in Verify's Mfr Profile Information for your company) where this test was conducted.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details	TestLaboratorySiteCod e	t TRUE		l(2)	Integer	1	2						Light-Duty	IUVP	(Note- The test lab name wil	Manufacturer	Front End XML	LD-IUVP-IT-BR007
IT-8	Laboratory Name	The name of the test laboratory where testin was performed	InUseVerifi cationProg ramSubmi ngssion/Testl nformation Details InUseVerifi	TestLaboratoryName	TRUE		A(35)	String								Light-Duty		Manufacturer Info for the specified test lab code. The test lab name must be in the XML file that is sent to CARB.)	Verify	Front End XML	
IT-9	Odometer at start of test	Enter the odometer reading (in miles) at th beginning of this test.	cationProg ramSubmi ssion/Testl e nformation	OdometerStartValue	TRUE		N(7,1)	Decimal	1	7		7	1			Light Duty	IUVP		Manufacturer	Front End XML	
<u>IT-10</u>	Pass/Fail/Void (Federal Standards)	Enter the Federal pass/fail/void status of this test.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details	FederalPassFailIndicat or	t TRUE			Enumeration							$\begin{array}{l} P=Pass\\ F=Fall (describe what Federal standards/emissions it failed in the Test Comments field)\\ V=Void (explain reasons why in the comments field)\\ NA = not applicable (not certified to Federal standards) \end{array}$	Light-Duty	IUVP	We are deleting the option for "A - Incomplete test (describe in the comments field).	Manufacturer	Front End XML	LD-IUVP-IT-BR008
IT-11	Pass/Fail/Void (California Standards)	ifornia pass/fail/void st	InUseVerifi cationProg ramSubmi ssion/Testl nformation at Details	CaliforniaPassFailIndic ator	TRUE			Enumeration							P = Pass F = Fail (describe what California standards/emissions it failed in the Test Comments field) V = Void (explain reasons why in the comments field) NA = not applicable (not certified to California standards)	Light-Duty	IUVP		Manufacturer	Front End XML	LD-IUVP-IT-BR009

EPA Data Element			Parent's				Basic Data	Data Type.	Min. Max.	Tot	tal. Fractional Min							Collection	Collecti	
Number	Long Name	Description	Name	XML Tag	Required	Multiplicity	Type	Description	Length Length	Pattern Dig	its Digits Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Point	on Type	Applicable Business Rules
	Test Date	Enter the valid calenda date at the start of this test.	Details	TestDate	TRUE			Date		[1-2]{1}[0 9]{3}[0- 1]{1}[0- 9]{1}[0- 3]{1}[0- 3]{1}[0- 9]{1}				Light-Duty	IUVP		Manufacture	Front End	XML	LD-IUVP-IT-BR012 LD-IUVP-IT-BR019
IT-13	Test Condition	Select the applicable test condition value for this test.		TestConditionsIdentifie	er TRUE			Enumeration					AR = As received AM = After maintenance (Explain what maintenance was performed in the Test Comments field) SS = Set to spec (EPA & ARB only)	Light-Duty	IUVP		Manufacture	Front End	XML	
	Test Procedure	Select the applicable test procedure for this test.	InUseVerifi cationProg ramSubmi ssion/Testl	TestProcedureIdentifie				Enumeration					A <sup>+</sup> - UT = TIMULTINE (THO - UNL CALL           A <sup>+</sup> - UT = TIMULTINE (THO - UNL CALL           A <sup>+</sup> - DEL & CO           A	Light-Duty			Manufacturei	Front End	XML	LD-UVP-IT-BR020
<u> </u>	Fuel Type	Select the applicable fuel type for this test.	InUseVerifi cationProg ramSubmi ssion/Testi nformation Details	TestFuelTypeldentifie	r TRUE			Enumeration					Use the same list of Fuel Types from certification.	Light-Duty	IUVP		Manufacture	Front End	XML	
		Was the Shift Indicator	InUseVerifi cationProg ramSubmi ssion/Testl nformation	ShiftIndicatorLightUsa	9								Y = Yes N = No							
	Shift Indicator Light Transmission Mode	Light used for this test?	Details InUseVerificationProg ramSubmi ssion/Testl nformation Details	eIndicator TransmissionModeIndi ator	FALSE	01		Enumeration Enumeration					N = Not applicable P = Power E = Economy	Light-Duty			Manufacture	Front End	XML	
	Transmission Mode Transmission Configuration As Tested	If the vehicle has a semi-automatic transmission, enter the mode in which it was tested.	InUseVerifi cationProg ramSubmi	ator TransmissionTestConf gurationIdentifier	6	01		Enumeration					A – Automatic mode M – Manual mode	Light-Duty				Front End	XML	
IT-19	Test Altitude	Select the applicable altitude value at which this test was conducted.	ramSubmi ssion/Testl nformation Details	TestAltitudeIndicator	TRUE			Enumeration					L = Low Altitude H = High Altitude	Light-Duty	IUVP		Manufacture	Front End	XML	
IT-20	Dyno Type	Select the applicable value for the type of dynamometer used for this test.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details	DynamometerTypelde tifier	n FALSE	01		Enumeration					HY = Hydrokinetic (8.65 inch twin rolls)           E1 = Electric (8.65 inch twin rolls)           E2 = Electric (30 inch twin rolls)           E3 = Electric (40 inch single roll)           E4 = Electric (24 inch single roll)           E4 = Electric (24 inch single roll)           E4 = AVD Electric (24 inch single roll)	Light-Duty	IUVP		Manufacture	Front End	XML	

EPA Data Element			Parent's				Basic	Data Type.	Min	Max.		Total	Fractional	Min							Collection	Collecti	
Number	Long Name st Information	Description	Name	XML Tag	Required	Multiplicity	Data Type	Description		Length	Pattern	Digits	Fractional Digits	Value	Max Value	Allowed Values	Industry	Process	Notes/Questions	Originator	Point	on Type	Applicable Business Rules
IT-21	Road Load HP	Enter the road-load horsepower (HP) for this test. This may als be referred to as dyno horsepower.	InUseVerifi cationProg ramSubmi ossion/Testl nformation Details InUseVerifi	RoadLoadHorsepower Value	FALSE	01	N(3,1)	Floating Decimal Number	3	3		3	1	0	99.9		Light-Duty	IUVP		Manufacturer	Front End	XML	
IT-22	Dynamometer Set Coefficient A	Enter the single roll dynamometer set coefficient A for this test.	cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details	SetCoefficientAValue	FALSE	01	R(7)	Floating Decimal Number				6	3	-1000	999.999		Light-Duty	IUVP		Manufacturer	Front End	XML	
IT-23	Dynamometer Set Coefficient B	Enter the single roll dynamometer set coefficient B for this test.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details	SetCoefficientBValue	FALSE	01	R(7)	Floating Decimal Number				6	5	-10	9.99999		Light-Duty	IUVP		Manufacturer	Front End	XML	
17-24	Dynamometer Set Coefficient C	Enter the single roll dynamometer set coefficient C for this test.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details	SetCoefficientCValue	FALSE	01	B(7)	Floating Decimal Number				7	6	-10	9.099099		Light-Duty	IUVP		Manufacturer	Front End	XML	
IT-25	Dynamometer Target	Enter the single roll dynamometer target coefficient A for this test	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details	TargetCoefficientAValu e		01	R(7)	Floating Decimal Number				6	3	-1000	990.999		Light-Duty			Manufacturer			
	Dynamometer Target Coefficient B	Enter the single roll dynamometer target coefficient B for this test	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details	TargetCoefficientBValu	FALSE	01	R(7)	Floating Decimal Number				6	5	-10	999.999		Light-Duty			Manufacturer			
	Dynamometer Target Coefficient C	Enter the single roll dynamometer target coefficient C for this teet	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete	TargetCoefficientCValu		01	R(7)	Floating Decimal Number				7	6	-10	3.099999							XML	
			InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi	0	TALSE	0.1	R(/)	Numbel				,	0	-10	s. adagaa		Light-Duty	1044		Manufacturer	- TOTA ENG	AIVIL	LD-IUVP-IT-BR001a LD-IUVP-IT-BR001b LD-IUVP-IT-BR002
	Mileage Category	The mileage category of this test vehicle.	ortDetails InUseVerifi cationProg ramSubmi ssion/Test DeleteRep		TRUE		A(1)	Enumeration								H = High mileage (minimum of 50,000 miles) L = Low mileage (minimum of 10,000 miles)	Light-Duty			Manufacturer		XML	LD-IUVP-IT-BR003a LD-IUVP-IT-BR003b LD-IUVP-IT-BR018
IT-39	Deletion Reason	the test submission	ortDetails	Text	FALSE	01	A(500)	String	1	500							Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR015

EPA Data Element Number Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type. Description	<u>Min</u> Length	<u>Max</u> Length F			Fractional Digits	<u>Min</u>	Max Value	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collection. Point	<u>Collecti</u> on Type	Applicable Business Rules
IUVP Test Information	Select the desired test result name.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails	TesiResultidentifier	TRUE	0.n		Enumeration								C TOTUL (Tati Injection) C OTATAL (Tati Injection) C OTATAL C	Light-Duty			Manufacturer			Update LD-UVP-IT-BR021 Update LD-UVP-IT-BR021 Update LD-UVP-IT-BR022
IT-29 Weighted result	Test results. Weighted result if more than 1 bag is measured.	InUseVerifi cationProg	WeightedResultValue	TRUE	0n	N(11,7)	Decimal				11	7	0	99993.9999999		Light-Duty	IUVP		Manufacturer	Front End	XML	
IT-30 Test Result Unit	Select the applicable units for this test result.	ramSubmi ssion/Testl nformation Details/Te stResultD etails InUseVerifi cationProg	TestResultUnitIdentifier	TRUE	0n		Enumeration								g/m = grams per mile g/t = grams per test (applies to evaporative tests) mpg = miles grallon g/g = grams per gallon (dispensed) for ORVR tests	Light-Duty	IUVP		Manufacturer	Front End	XML	<u> </u> _
IT-31 In-use Standard (Federal	The Federal in-use emission standard for the selected emission ) name.	ramSubmi ssion/Testl nformation Details/Te	FederalInUseStandard\ alue	FALSE	0n	N(7,4)	Decimal			[0-  ]{1,3}([\\ .][0- ]]{1,4})?	7	4	0	999.9999		Light-Duty	IUVP		Manufacturer	Back-end	XML	
In-use Standard IT-32 (California)	Emission standard for the emission listed.	cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails	CaliforniaInUseStandar dValue	FALSE	0n	N(7,4)	Decimal		9	[0-  {1,3}([\\ .][0- 9]{1,4})?	7	4	0	999.9999		Light-Duty	IUVP		Manufacturer	Back-end	XML	
_ IT-33 _bag 1 result	Bag 1 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails	Bag1ResultValue	FALSE	0n	N(11,7)	Decimal				11	7	0	9699.9999999		Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR016
IT-34 bag 2 result	Bag 2 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails	Bag2ResultValue	FALSE	0n	N(11,7)	Decimal				11	7	0	9999.9999999		Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR016
IT-35 bag 3 result	Bag 3 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails	Bag3ResultValue	FALSE		N(11.7)	Decimal				11	7		9999.9999999			IUVP		Manufacturer		XML	LD-IUVP-IT-BR016
	Bag 4 result of the emission listed in grams/mile. Only required for FTP tests	InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD										1	0			Light-Duty						
IT-36 bag 4 result	of hybrid vehicles. Enter any additional comments for this test. Include any emission standards and emission names that failed. If this test was voided, describe the reason for the void.	etails InUseVerifi cationProg ramSubmi ssion/Testl nformation Details	Bag4ResultValue TestCommentText	FALSE	0n	N(11,7)	Decimal	1	1000		11	7	0	9999.9999999		Light-Duty			Manufacturer		XML	LD-IUVP-IT-BR017 LD-IUVP-IT-BR010 LD-IUVP-IT-BR011 LD-IUVP-IT-BR014

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

These equations are used by Verify to calculate CREE and Optional CREE if they are selected as Test Result/Emission Name in Test Information.

## Gasoline - 40 CFR 600.113-12(h)(2)

CREE 40 CFR 600.113-12(h)(2)(i) = [(CWF / 0.273) \* **HC**] + (1.571 \* CO) + CO2 OptCREE 40 CFR 600.113-12(h)(2)(ii) = [(CWF / 0.273) \* **NMHC**] + (1.571 \* CO) + CO2 + **(298 \* N2O) + (25 \* CH4)** 

# Diesel - 40 CFR 600.113-12(i)(2)

 CREE
 40 CFR 600.113-12(i)(2)(i)
 = (3.172 \* HC) + (1.571 \* CO) + CO2 

 OptCREE
 40 CFR 600.113-12(i)(2)(ii)
 = (3.172 \* NMHC) + (1.571 \* CO) + CO2 + (298 \* N2O) + (25 \* CH4) 

## Methanol - 40 CFR 600.113-12(j)(2)

 CREE
 40 CFR 600.113-12(j)(2)(i)
 = [(CWF / 0.273) \* HC] + (1.571 \* CO) + (1.374 \* CH3OH) + (1.466 \* HCHO) + CO2

 OptCREE
 40 CFR 600.113-12(j)(2)(ii)
 = [(CWF / 0.273) \* NMHC] + (1.571 \* CO) + (1.374 \* CH3OH) + (1.466 \* HCHO) + CO2 + (298 \* N2O) + (25 \* CH4)

## CNG - 40 CFR 600.113-12(k)(2)

 CREE
 40 CFR 600.113-12(k)(2)(i)
 = [(CWFNMHC / 0.273) \* NMHC] + (1.571 \* CO) + CO2 + (2.743 \* CH4)

 OptCREE
 40 CFR 600.113-12(k)(2)(ii)
 = [(CWFNMHC / 0.273) \* NMHC] + (1.571 \* CO) + CO2 + (298 \* N2O) + (25 \* CH4)

### Ethanol - 40 CFR 600.113-12(I)(2)

 CREE
 40 CFR 600.113-12(l)(2)(i)
 = [(CWF / 0.273) \* HC] + (1.571 \* CO) + (1.374 \* CH3OH) + (1.466 \* HCHO) + (1.911 \* C2H5OH) + (1.998 \* C2H4O) + CO2

 OptCREE
 40 CFR 600.113-12(l)(2)(ii)
 = [(CWF / 0.273) \* NMHC] + (1.571 \* CO) + (1.374 \* CH3OH) + (1.466 \* HCHO) + (1.911 \* C2H5OH) + (1.998 \* C2H4O) + CO2 + (298 \* N2O) + (25 \* CH4)

### Notes:

For HC, use the Verify name of HC-TOTAL Methane = CH4 Methanol = CH3OH Ethanol = C2H5OH Formaldehyde = HCHO Acetaldehyde = H3C2HO or C2H4O

Items in bold above are the items that are different between the CREE and Opt-CREE equations for each fuel type.

For each emission name, use the rounded test result (CO2 rounded to whole number) with the 120k DF applied if applicable (if aged components there may not be DFs). The final CREE/Opt-CREE is then rounded to a whole number.

#### Target Fuel Economy and Target CO2 for a footprint are based on the following equations:

49 CFR 53	1.5 8	\$ 533.5, CAFE Standards	4	9 CF	R 531.5 & 533.5, CAFE Standards	86 CFR 1	818-12	2, GHG Standards
Reformed		1	Reformed	-	1	Target CO <sub>2</sub>	_	A x Footprint + B
Target FE	=	$1 + (1 - 1) = e^{(Footprint - C)/D}$	Target FE	_	Min ( Max ( C x Footprint + D, $\frac{1}{A}$ ), $\frac{1}{B}$ )	(2012 +)	-	A X POOLPHILL T B
(Truck 2008-2011)		A B A $1 + e^{(Footprint - C)/D}$	(2012 +)					
(Car 2011 only)		Per regulation: e = 2.718				If Footprint <	<= 41 \$	SqFt, Target CO <sub>2</sub> = C
						If Footprint	> 56 S	SqFt, Target CO <sub>2</sub> = D

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date of Change	2011-May-13 Description	Data Element	Version #	Enhancement to Baseline (Y/N)	Comments
CAFÉ					Items in yellow may require analysis to confirm baseline enhancements that may affect project cost and/or timeline
11/23/2010	Added "/GHG" to multiplicity column	CA-3		N	
11/23/2010	Added "/GHG" to multiplicity column	CA-0		N	
11/23/2010	Added "/GHG" to multiplicity column	CA-1		N	
11/23/2010	Changed DE name from "CAFE Compliance Category to "CAFE/GHG Compliance Category"; added "/GHG" to description, multiplicity; removed "DP = Domestic Passenger Vehicles IP = Import Passenger Vehicles" from allowed values and added "PV = Passenger Vehicles";	CA-4		N	
11/23/2010	New DE "GHG Exempt Indicator"	CA-127			
11/23/2010	New DE " GHG Calculation Method"	CA-128			
11/23/2010	New DE "For OCREE calculations, should N2O emissions always default to .010gpm?"	CA-129			
11/23/2010	Added "/GHG" to element name, description, multiplicity	CA-4.5		Ν	
11/23/2010	New DE "EPA Calculated Official Model Year GHG Production Units"	CA-130			
11/23/2010	New DE "EPA Calculated Official Model Year GHG TLAAS Production Units"	CA-131			
11/23/2010	Changed DE name from "EPA Official Model Year Truck CAFE Production Units" to "EPA Calculated Official Model Year Truck CAFE Production Units" ; Added new BR "Required if CAFE/GHG Compliance Category = Light Truck"	CA-53		N	
11/23/2010	Changed DE name from "EPA Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units" ; Added BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-54		N	
11/23/2010	Changed DE name from "EPA Official Model Year Import Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units"; Added new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-55		N	
11/23/2010	New DE "Manufacturer Calculated Official Model Year GHG Production Units"	CA-132			
11/23/2010	New DE "Manufacturer Calculated Official Model Year GHG TLAAS Production Units"	CA-133			

11/23/2010	Changed DE name from "Manufacturer Official Model Year Truck CAFE Production Units" to "Manufacturer Calculated Official Model Year Truck CAFE Production Units"; Added: Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-50	Ν	
11/23/2010	Changed DE Name from "Manufacturer Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units"; Added Parent's name, XML Tag, new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-51	Ν	
11/23/2010	Changed DE Name from "Manufacturer Official Model Year Import Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units"; Added Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-52	Ν	
11/23/2010	New DE "EPA Calculated Baseline Average GHG Unrounded 4 Decimal"	CA-134		
11/23/2010	New DE " EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal"	CA-135		
11/23/2010	Changed DE name from "EPA Baseline Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Changed min. value from 1 to 0, new BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-59	Ν	
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-60	Ν	
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal; new BR added: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-61	N	
11/23/2010	New DE "EPA Calculated Baseline Average GHG Rounded Whole Number"	CA-136		
11/23/2010	New DE "EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number"	CA-137		

11/23/2010	Changed DE name from "EPA Baseline Truck CAFE Rounded 1 Decimal" to "EPA Calculated Baseline Truck CAFE Rounded 1 Decimal"; Changed Basic Data Type from "N(4,1) to N(5,1)"; Changed Min Value from 1 to 0; Added "Light Duty" to Industry; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-63	Ν	
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-66	Ν	
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-67	Ν	
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-70	Ν	
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-71	N	
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal"	CA-138		
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal"	CA-139		
11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-56	Ν	

11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-57	N	
11/23/2010	Changed DE name form "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-58	N	
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG Rounded Whole Number"	CA-140		
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number"	CA-141		
11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Rounded 1 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-62	N	
11/23/2010	Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-64	N	
11/23/2010	Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal";	CA-65	N	
11/23/2010	Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-68	N	

11/23/2010	Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-69	1	N	
11/23/2010	New DE "EPA Calculated Final Average GHG Unrounded 4 Decimal"	CA-142			
11/23/2010	New DE "EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal"	CA-143			
11/23/2010	Changed DE name from "EPA Final Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Final Truck CAFE Unrounded 4 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-75	1	N	
11/23/2010	Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-76	1	N	
11/23/2010	Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-77	1	N	
11/23/2010	New DE "EPA Calculated Final Average GHG Rounded Whole Number"	CA-144			
11/23/2010	New DE "EPA Calculated Final Average GHG TLAAS Rounded Whole Number"	CA-145			
11/23/2010	Changed DE name from "EPA Final Truck CAFE Rounded 1 Decimal" to "EPA Calculated Final Truck CAFE Rounded 1 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-79	٢	N	
11/23/2010	Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-82	1	N	
11/23/2010	Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to " EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-83	١	N	

Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-86		N	
Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-87		N	
New DE "Manufacturer Calculated Final Average GHG Unrounded 4 Decimal"	CA-146			
New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal"	CA-147			
Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-72		Ν	
Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-73		Ν	
Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-74		Ν	
New DE "Manufacturer Calculated Final Average GHG Rounded Whole Number"	CA-148			
New DE "Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number"	CA-149			
New DE "Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal";	CA-150			this DE replaced CA-78 from the previous spreadsheet
Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-80		Ν	
	<ul> <li>Passenger Vehicle CAFE Rounded Test</li> <li>Procedure Adjusted 1 Decimal" to "EPA</li> <li>Calculated Final Domestic Passenger Vehicle</li> <li>CAFE Rounded Test Procedure Adjusted 1</li> <li>Decimal"; New BR: "Required if CAFE/GHG</li> <li>Compliance Category = Passenger Vehicle"</li> <li>Changed DE name from "EPA Final Import</li> <li>Passenger Vehicle CAFE Rounded Test</li> <li>Procedure Adjusted 1 Decimal" to "EPA</li> <li>Calculated Final Import Passenger Vehicle CAFE</li> <li>Rounded Test Procedure Adjusted 1 Decimal";</li> <li>New BR: "Required if CAFE/GHG Compliance</li> <li>Category = Passenger Vehicle"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG TLAAS Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG TLAAS Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG TLAAS Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG TLAAS Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Average</li> <li>GHG TLAAS Unrounded 4 Decimal"</li> <li>New DE "Manufacturer Calculated Final Truck CAFE</li> <li>Unrounded 4 Decimal"; Added Parent's Name,</li> <li>XML Tag; Changed Min Value from 1 to 0; New</li> <li>BR: "Required if CAFE/GHG Compliance</li> <li>Category = Light Truck"</li> <li>Changed DE name from "Manufacturer</li> <li>Calculated Final Domestic Passenger Vehicle</li> <li>CAFE Unrounded Unadjusted 4 Decimal"; Added</li> <li>Parent's Name, XML Tag; New BR: "Required if</li> <li>CAFE/GHG Compliance Category = Passenger</li> <li>Vehicle"</li> <li>Changed DE name from "Manufacturer Final</li> <li>Import Passenger Vehicle CAFE Unrounded</li> <li>Unadjusted 4 Decimal" to "Manufacturer</li> <li>Calculated Final Import Passenger Vehicle CAFE</li> <li>Unrounded Unadjusted 4 Decimal"; Added</li> <li>Parent's Name, XML Tag; New BR: "Required if</li> <li>CAFE/GHG Compliance Cate</li></ul>	Passenger Vehicle CAFE Rounded Test       Procedure Adjusted 1 Decimal' to "EPA         Calculated Final Domestic Passenger Vehicle       CA-86         Carbitated Final Domestic Passenger Vehicle       CA-86         Compliance Category = Passenger Vehicle       CA-86         Changed DE name from "EPA Final Import       Passenger Vehicle CAFE         Passenger Vehicle CAFE Rounded Test       Procedure Adjusted 1 Decimal';         New DE "Manufacturer Calculated Final Average       CA-146         Category = Passenger Vehicle       CA-146         New DE "Manufacturer Calculated Final Average       CA-147         Changed DE name from "Manufacturer Final       Truck CAFE         Unrounded 4 Decimal"       CA-147         Changed DE name from "Manufacturer Final       Truck CAFE         Unrounded 4 Decimal''       CA-72         XMM It Tag; Changed Min Value from 1 to 0; New       Rs: "Required if CAFE/GHG Compliance         Category = Light Truck"       Changed DE name from "Manufacturer Final         Domestic Passenger Vehicle CAFE Unrounded       CA-73         Parent's Name, XML Tag; New BR: "Required if       CA-73         CAFE/GHG Compliance Category = Passenger       CA-74         Unadjusted 4 Decimal'', Added       CA-74         Daraged DE name from "Manufacturer Final       CA-74         CAFE/G	Passinger Vehicle CAFE Rounded Test       Procedure Adjusted 1 Decimal' to 'EPA       CA-86         Calculated Final Domestic Passenger Vehicle       CA-86       CA-86         CATE Rounded Test Procedure Adjusted 1       CAFE/CHG       CA-86         Compliance Category = Passenger Vehicle*       CA-86       CA-86         Changed DE name from 'EPA Final Import       Passenger Vehicle CAFE Rounded Test       Procedure Adjusted 1 Decimal' to 'EPA         Calculated Final Import Passenger Vehicle CAFE       CA-87       Rounded Test Procedure Adjusted 1 Decimal';         New DE Thanufacturer Calculated Final Average       CA-146       CA-147         CAtagory = Passenger Vehicle*       CA-147       CA-147         New DE "Manufacturer Calculated Final Average       CA-147       CA-147         Changed DE name from 'Manufacturer Final       Truck CAFE       Unrounded 4 Decimal'         Truck CAFE Unrounded 4 Decimal'       CA-148       CA-72         XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHC Compliance       CA-73         Category = Light Truck*       CA-73       CA-74         Changed DE name from 'Manufacturer Final       CA-74       CA-73         Changed DE name from 'Manufacturer Final       CA-74       CA-73         Charged DE name from 'Manufacturer Final       CA-74       CA-74	Passinger Vehicle CAFE Rounded Test Procedure Adjusted 1 Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimar': New BR: "Required if CAFE/CHG Compliance Category = Passenger Vehicle"       CA-86       N         Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New DE "Manufacturer Calculated Final Average CA1466       CA-87       N         New DE "Manufacturer Calculated Final Average CHG Unrounded 4 Decimal"       CA-146       CA-147         Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal"       CA-147       CA-147         Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal"       CA-147       CA-147         Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal"       CA-147       CA-147         Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded 1 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE Unrounded Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"       CA-73       N         Changed DE name from "Manufacturer Final Unrounded Valei Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"       CA-74       N         Changed DE name from "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passe

11/23/2010	Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-81	Ν	
11/23/2010	Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-84	N	
11/23/2010	Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-85	Ν	
11/23/2010	New DE "EPA Official Average GHG Grams Per Mile"	CA-151		
11/23/2010	New DE "EPA Official Average GHG TLAAS Grams Per Mile"	CA-152		
11/23/2010	Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-91	Ν	
11/23/2010	New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-92	Ν	
11/23/2010	New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-93	Ν	
11/23/2010	New DE "Manufacturer Calculated Official Average GHG Grams Per Mile"	CA-153		
11/23/2010	New DE "Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile"	CA-154		
11/23/2010	Changed DE name from "Manufacturer Official Truck CAFE Miles Per Gallon" to "Manufacturer Calculated Official Truck CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-88	Ν	
11/23/2010	Changed DE name from "Manufacturer Official Domestic Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Domestic Passenger Vehicle CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-89	Ν	

11/23/2010	Changed DE name from "Manufacturer Official Import Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-90	Ν	
11/23/2010	Noted that Parent's name and XML tag are missing	CA-11	N	
11/23/2010	Basic data type changed to "A(12)"; change to fixed string; Min/Max lengths changed to 12 and 12; Min value changed to 4, Max value deleted;	CA-14.1	Ν	
11/23/2010	New DE "CAFE Domestic/Import Indicator"	CA-155		
11/23/2010	New DE "GHG TLAAS Indicator"	CA-156		
11/23/2010	New DE "GHG Advanced Technology Indicator"	CA-157		
11/23/2010	New DE "Footprint Final Model Year GHG Production Units"	CA-158		
11/23/2010	New DE "EPA Calculated Footprint Target GHG Value (grams per mile)"	CA-159		
11/23/2010	Deleted entire DE	CA-21		
11/23/2010	Changed DE name from "EPA Footprint Target FE Value (miles per gallon)" to "EPA Calculated Footprint Target FE Value (miles per gallon)";	CA-21.5	Ν	
11/23/2010	Deleted entire DE	CA-21.7		
11/23/2010	New DE "Manufacturer Calculated Unrounded GHG Standard"	CA-160		
11/23/2010	New DE "EPA Calculated Unrounded GHG Standard"	CA-161		
11/23/2010	New DE "EPA Calculated Unrounded GHG Standard Discrepancy Value"	CA-162		
11/23/2010	New DE "EPA Calculated Final GHG Standard"	CA-163		
11/23/2010	New DE "Manufacturer GHG Comments"	CA-164		
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22	Ν	
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22.3	Ν	
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22.7	N	
11/23/2010	Added Parent's name, XML tag	CA-25.1	N	
11/23/2010	New DE "EPA Calculated Baseline Model Type City GHG Value 1 decimal"	CA-165		
11/23/2010	New DE "EPA Calculated Baseline Model Type Highway GHG Value 1 decimal"	CA-166		
11/23/2010	New DE "EPA Calculated Baseline Model Type Combined GHG Value 1 decimal"	CA-167		
11/23/2010	New DE "EPA Calculated Baseline Model Type Combined GHG Value Whole Number"	CA-168		
11/23/2010	New DE "EPA Calculated Final Model Type City GHG Value 1 decimal"	CA-169		
11/23/2010	New DE "EPA Calculated Final Model Type Highway GHG Value 1 decimal"	CA-170		
11/23/2010	New DE "EPA Calculated Final Model Type Combined GHG Value 1 decimal"	CA-171		

11/23/2010	New DE "EPA Calculated Final Model Type Combined GHG Value Whole Number"	CA-172		
11/23/2010	New DE "EPA Calculated Model Type GHG Production Units"	CA-173		
11/23/2010	New DE "EPA Calculated Baseline Base Level City GHG Value 1 decimal"	CA-174		
11/23/2010	New DE "EPA Calculated Baseline Base Level Highway GHG Value 1 decimal"	CA-175		
11/23/2010	New DE "EPA Calculated Baseline Base Level Combined GHG Value 1 decimal"	CA-176		
11/23/2010	New DE "EPA Calculated Final Base Level City GHG Value 1 decimal"	CA-177		
11/23/2010	New DE "EPA Calculated Final Base Level Highway GHG Value 1 decimal"	CA-178		
11/23/2010	New DE "EPA Calculated Final Base Level Combined GHG Value 1 decimal"	CA-179		
11/23/2010	New DE "EPA Calculated Base Level GHG Production Units"	CA-180		
11/23/2010	New DE "EPA Calculated Baseline Configuration City GHG Value 1 decimal"	CA-181		
11/23/2010	New DE "EPA Calculated Baseline Configuration Highway GHG Value 1 decimal"	CA-182		
11/23/2010	New DE "EPA Calculated Baseline Configuration Combined GHG Value 1 decimal"	CA-183		
11/23/2010	New DE "EPA Calculated Final Configuration City GHG Value 1 decimal"	CA-184		
11/23/2010	New DE "EPA Calculated Final Configuration Highway GHG Value 1 decimal"	CA-185		
11/23/2010	New DE "EPA Calculated Final Configuration Combined GHG Value 1 decimal"	CA-186		
11/23/2010	New DE "EPA Calculated Configuration GHG Production Units"	CA-187		
11/23/2010	Added DE name (missing from previous DR spreadsheet) "EPA Calculated Baseline Configuration City FE Value 4 decimal"	CA-110	Ν	
11/23/2010	Deleted Min. and Max values; edited enumeration values;	CA-31	Ν	
11/23/2010	New DE "EPA Calculated Baseline Subconfiguration City GHG Value 1 decimal"	CA-188		
11/23/2010	New DE "EPA Calculated Baseline Subconfiguration Highway GHG Value 1 decimal"	CA-189		
11/23/2010	New DE "EPA Calculated Final Subconfiguration City GHG Value 1 decimal"	CA-190		
11/23/2010	New DE "EPA Calculated Final Subconfiguration Highway GHG Value 1 decimal"	CA-191		
11/23/2010	New DE "EPA Calculated Subconfiguration GHG Production Units"	CA-192		
11/23/2010	Deleted entire DE	CA-119		
11/23/2010	Deleted entire DE	CA-122		
11/23/2010	Added Parent's name, XML tag	CA-124	Ν	
11/23/2010	Added Parent's name, XML tag	CA-125	Ν	
11/23/2010	Added Parent's name, XML tag	CA-126	Ν	
11/23/2010	Added Parent's name, XML tag	CA-34	N	
11/23/2010	New DE "Manufacturer Subconfiguration Final	CA-193		
	Model Year GHG Production Units"	OA 135		

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11/23/2010	Added Parent's name, XML tag	CA-32	N	
	Updated all BR numbers with applicable JIRA			
2/9/2011	numbers			
4/28/2011	Hide the business rule text column	All DE's		
FE Label				
11/23/2010	Added Parent's name, XML tag	GL-78.2	N	
11/23/2010	Added Parent's name, XML tag	GL-79.1	N	
11/23/2010	Added Parent's name, XML tag	GL-79.2	N	
	Added Parent's name, XML tag; Added new			
11/23/2010	allowed value "CS-3C = Charge Sustaining 3- cycle"	GL-79.3	Ν	
11/23/2010	Edited allowed values field	GL-123	N	
11/23/2010	Added "GL-130.5 continued" DE; Updated Validation rules	GL-130.5	N	
11/23/2010	Added Parent's name, XML tag	GL-173.1	N	
	Updated all BR numbers with applicable JIRA	0211011		
2/9/2011	numbers			
2/24/2011	Added NEW GL-130.2	GL-130.2	N	
4/13/2011	Updated multiplicity	GL-81		
4/13/2011	Changed Collection Type	GL-130		
4/13/2011	Changed Collection Type	GL-130.5		
4/15/2011	Updated enumeration list from KW-HR100 to KW- HR/100	GL-90		
4/28/2011	Updated the multiplicity	GL-81		
4/28/2011	Add 'HYD' as a new enumeration	GL-13.5.3		
4/28/2011	Hide the business rule text column	All DE's		
4/28/2011	Marked as Deleted	GL-7		
4/28/2011	Marked as Deleted	GL-8		
4/28/2011	Marked as Deleted	GL-9		
Road Load		OL-3		
11/23/2010	Added Parent's name	RL-1	N	
11/23/2010	Added Parent's name, XML tag	RL-1.5	N	
11/23/2010	Added Parent's name, XML tag	RL-1.5 RL-1.6	N	
11/23/2010	Added Parent's name, XML tag	RL-1.0 RL-2	N	
11/23/2010	Added Parent's name	RL-3	N	
11/00/0010				
11/23/2010	Added Parent's name	RL-4	N	
11/23/2010	Added Parent's name	RL-5	N	
11/23/2010 11/23/2010	Added Parent's name Added Parent's name, XML tag	RL-5 RL-5.1	N N	
11/23/2010	Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag	RL-5	N	
11/23/2010 11/23/2010	Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999	RL-5 RL-5.1	N N	
11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name; Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"	RL-5 RL-5.1 RL-6 RL-7 RL-14	N N N N	
11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name; Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name	RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15	N N N N N	
11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name; Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"	RL-5 RL-5.1 RL-6 RL-7 RL-14	N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name; Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name	RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15	N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99,999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag	RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-14 RL-15 RL-16	N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name; Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name, XML tag	RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17	N N N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99,999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-16         RL-16         RL-17         RL-18	N N N N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99,999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name         Added Parent's name, XML tag	RL-5           RL-6           RL-7           RL-14           RL-15           RL-16           RL-17           RL-16           RL-17           RL-17           RL-17	N N N N N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name         Added Parent's name, XML tag         Added Parent's name         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-17         RL-17         RL-18         RL-19         RL-20	N N N N N N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-17         RL-18         RL-19         RL-20         RL-21         RL-22	N N N N N N N N N N N N N N N	
11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-17         RL-18         RL-19         RL-20         RL-21         RL-22         RL-24	N N N N N N N N N N N N N N N N	
11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-15         RL-16         RL-17         RL-18         RL-19         RL-20         RL-21         RL-22         RL-24         RL-25	N N N N N N N N N N N N N N N N N N N	
11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-17         RL-18         RL-19         RL-20         RL-21         RL-22         RL-22         RL-24         RL-25         RL-26	N N N N N N N N N N N N N N N N N N N	
11/23/2010           11/23/2010	Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name, Changed max value from         100 to 99.999         Changed collection type from "assigned" to "Pre- existing"         Added Parent's name         Added Parent's name, XML tag         Added Parent's name, XML tag         Added Parent's name         Added Parent's name	RL-5         RL-6         RL-7         RL-14         RL-15         RL-16         RL-15         RL-16         RL-17         RL-18         RL-19         RL-20         RL-21         RL-22         RL-24         RL-25	N N N N N N N N N N N N N N N N N N N	

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4/28/2011	Hide the business rule text column	All DE's		
Vehicle Information		-		
12/21/2010	Changed Min Value from 0.1 to 0.0	VI-43.5	N	
12/22/2010	Updated the first Validation Rule with new text	VI-11.6	N	
	Updated all BR numbers with applicable JIRA			
2/9/2011	numbers			
3/30/2011	Updated description to remove the selection of invalid value of 'NA'	VI-15		
4/18/2011	Fixed enum values (S/T)	VI-11.2 VI-11.3		
4/28/2011	Added new enumeration: 'HYD'	VI-11.1		
4/28/2011	Hide the business rule text column	All DE's		
Test Information				
12/21/2010	Modified Notes/Questions to add mapping for Test Procedures Codes 84, 85, 86 Replaced the validations rules with the new rule	TI-43	Ν	
12/21/2010	Added new note re: Test Procedure Codes 80, 82	TI-8	N	
12/21/2010	Updated the first Validation Rule with new text	TI-40	N	
2/9/2011	Updated all BR numbers with applicable JIRA numbers			
2/9/2011	Added new enumeration value "AS-VOLT"	TI-19	N	
2/10/2011	Changed DE number due to duplication	TI-18.5	Ν	This DE number was duplicated so EPA requested the new DE "Charge Depleting Range (Calculated miles)" be changed to TI-18.6.1
2/21/2011	Added new DE for Opt-CREE	TI-19.5.1		Created separate DE's for CREE and Op CREE Updated BR - need to confirm text is correct
2/21/2011	Updated existing DE	TI-19.5		Removed Opt-CREE portion
2/24/2011	Updated BR text as it is in VERIFY-3326	TI-19		
2/24/2011	Changed the DE number from TI-19.5.1 to TI- 19.6 as it is listed in schema; Added XML tag and Parent Name	TI-19.6	Y	
2/24/2011	Updated Parent Name	TI-20.6		
3/30/2011	Added the Data Type Description as	TI-20.5		
1/10/0011	'Enumeration'	<b>T</b> I 40		
4/13/2011	Added new BR for TI-19	TI-19		
4/13/2011 4/15/2011	Added new enumeration value "NOT5C" Updated enumeration list from KW-HR100 to KW-	TI-45 TI-20.5		
4/28/2011	HR/100			
4/28/2011 Test Group	Hide the business rule text column	All DE's		
12/21/2010	Updated Collection Type column as 'Pre-existing Data'	TG-203	N	
12/21/2010	Updated Multiplicity column	TG-7.4	N	İ.
12/21/2010	Updated Multiplicity column	TG-7.4.1	N	
12/21/2010	Updated Multiplicity column	TG-7.5	N	
12/21/2010	Updated Multiplicity column	TG-218	N	1
12/21/2010	Updated Multiplicity column	TG-210 TG-219	N	
12/21/2010	Updated Multiplicity column	TG-219	N	
12/21/2010	Updated Multiplicity column	TG-219.1 TG-219.2	N	
12/21/2010	Updated Multiplicity column Updated Multiplicity column	TG-219.2 TG-8.4	N N	
	Updated Multiplicity column Updated Multiplicity column			
12/21/2010		TG-8.5	N	
12/21/2010	Updated Multiplicity column	TG-8.6	N	

12/21/2010	Updated Multiplicity column	TG-219.3.1	Ν	
12/21/2010	Updated Multiplicity column	TG-219.4.1	N	
12/21/2010	Updated Multiplicity column	TG-219.4.2	N	
1/27/2011	Updated validation rule	TG-7.7	N	New Text: If Drive Source (TG-7.1) equals 'C' (Combustion Engine) and if more than one Fuel(s) (TG-7.3) selected is combustible (i.e., "Gasoline" (G), "Diesel" (D), "Methanol" (M), "Ethanol" (E), "Compressed Natural Gas" (CNG), "Liquified Natural Gas" (LNG), or "Liquified Petroleum Gas" (LPG)), and optional for "Hydrogen" (H), then Multiple Fuel Combustion - Separate or Together (TG-7.7) is required. Otherwise, it is not allowed.
1/27/2011	Updated validation rule	TG-7.5	N	New Text: If more than one Fuel(s) (TG- 7.3) is selected for the Test Group when Drive Source (TG-7.1) is 'C' (Combustion Engine), and if model year is greater than or equal to 2012, then CREE Weighting Factor for Dual/Multiple Fuel Vehicles (TG 7.5) is required for each fuel. Otherwise, i is not allowed.
2/9/2011	Updated all BR numbers with applicable JIRA numbers			
2/9/2011	Added new data element	TG-217.1		
2/9/2011	Added new enumeration value "AS-VOLT"	TG-225		
2/21/2011	Created new DE for Opt-CREE	TG-8.4.1		
2/21/2011	Updated DE	TG-8.4		Removed Opt-CREE
2/23/2011	Created new DE for Opt-CREE	TG-8.5.1		
2/23/2011	Updated DE	TG-8.5		Removed Opt-CREE
2/23/2011	Created new DE for Opt-CREE	TG-8.6.1		
2/23/2011	Updated DE	TG-8.6		Removed Opt-CREE
2/24/2011	Updated Required Field to FALSE	TG-216.7		
2/24/2011	Updated Required Field to FALSE	TG-32.5		
2/24/2011	Updated Required Field to FALSE	TG-32.6		
2/24/2011	Updated XML Tag	TG-8.4		
2/24/2011	Added new XML Tag and Parent Name	TG-8.4.1		
2/24/2011	Updated XML Tag and Parent Name	TG-8.5		
2/24/2011	Updated XML Tag and Parent Name	TG-8.6		
2/24/2011	Added new XML Tag and Parent Name	TG-8.5.1		
2/24/2011	Added new XML Tag and Parent Name	TG-8.6.1		
	Updated the Enumeration List, Applicable			
2/28/2011	Business Rules, and English Validation Rules	TG-209		
	column			
2/28/2011	Updated the Enumeration List, Applicable Business Rules, and English Validation Rules column	TG-225		
3/3/2011	Added new business rules created based on the Group business rules	Many DE's		
3/30/2011	Corrected the XML tag	TG-7.9		
3/30/2011	Added the Allowed Voluce (serve as TO 00.4)	TG-217.1		
3/30/2011	Added the Allowed Values (same as TG-204)	16-217.1		

ed Value to remove 'COLD'				
	TG-203			
type from A(3) to A(1) as 7209	TG-7.4.1			
BRs	All DE's			
S/T)	TG-7.6 TG 7.7			
tion: 'HYD'	TG-7.3			
le text column	All DE's			
pers with applicable JIRA				
le text column	All DE's			
pers with applicable JIRA				
ed the XML tag	DI-25.1			
le text column	All DE's			
pers with applicable JIRA				
le text column	All DE's			
pers with applicable JIRA				
ration value "AS-VOLT"	SI-59			
alidation Rule based on				
	SI-59			
le text column	All DE's			
pers with applicable JIRA				
le text column	All DE's			
pers with applicable JIRA				
ag	EV-3			
S/T)	EV-3.6			
tion: 'HYD'	EV-3.5			
le text column	All DE's			
pers with applicable JIRA				
le text column	All DE's			
pers with applicable JIRA				
ration value "AS-VOLT"	IT-28			 
le text column	All DE's			
pers with applicable JIRA				
le text column	All DE's			
			1	
			1	
			1	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

#### Summary of Changes Made to GHG Data Requirements since 09/09/2010

Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	CAFÉ	CA-127	GHG Exempt Indicator	New Data Element
11/23/2010	CAFÉ	CA-128	GHG Calculation Method	New Data Element
11/23/2010	CAFÉ	CA-129	For OCREE calculations, should N2O emissions always default to .010gpm?	New Data Element
11/23/2010	CAFÉ	CA-130	EPA Calculated Official Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-131	EPA Calculated Official Model Year GHG TLAAS Production Units	New Data Element
11/23/2010	CAFÉ	CA-132	Manufacturer Calculated Official Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-133	Manufacturer Calculated Official Model Year GHG TLAAS Production Units	New Data Element
11/23/2010	CAFÉ	CA-134	EPA Calculated Baseline Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-135	EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-136	EPA Calculated Baseline Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-137	EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-138	Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-139	Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-140	Manufacturer Calculated Baseline Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-141	Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-142	EPA Calculated Final Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-143	EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-144	EPA Calculated Final Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-145	EPA Calculated Final Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-146	Manufacturer Calculated Final Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-147	Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-148	Manufacturer Calculated Final Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-149	Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010 420d11003 xl	CAFÉ	CA-150	Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal	New Data Element

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11/23/2010	CAFÉ	CA-151	EPA Official Average GHG Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-152	EPA Official Average GHG TLAAS Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-153	Manufacturer Calculated Official Average GHG Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-154	Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-155	CAFE Domestic/Import Indicator	New Data Element
11/23/2010	CAFÉ	CA-156	GHG TLAAS Indicator	New Data Element
11/23/2010	CAFÉ	CA-157	GHG Advanced Technology Indicator	New Data Element
11/23/2010	CAFÉ	CA-158	Footprint Final Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-159	EPA Calculated Footprint Target GHG Value (grams per mile)	New Data Element
11/23/2010	CAFÉ	CA-160	Manufacturer Calculated Unrounded GHG Standard	New Data Element
11/23/2010	CAFÉ	CA-161	EPA Calculated Unrounded GHG Standard	New Data Element
	CAFÉ	CA-162	EPA Calculated Unrounded GHG Standard	
11/23/2010		0.4.400	Discrepancy Value	New Data Element
11/23/2010	CAFÉ	CA-163	EPA Calculated Final GHG Standard	New Data Element
11/23/2010	CAFÉ	CA-164	Manufacturer GHG Comments	New Data Element
11/23/2010	CAFÉ	CA-165	EPA Calculated Baseline Model Type City GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-166	EPA Calculated Baseline Model Type Highway GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-167	EPA Calculated Baseline Model Type Combined GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-168	EPA Calculated Baseline Model Type Combined GHG Value Whole Number	New Data Element
11/23/2010	CAFÉ	CA-169	EPA Calculated Final Model Type City GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-170	EPA Calculated Final Model Type Highway GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-171	EPA Calculated Final Model Type Combined GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-172	EPA Calculated Final Model Type Combined GHG Value Whole Number	New Data Element
11/23/2010	CAFÉ	CA-173	EPA Calculated Model Type GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-174	EPA Calculated Baseline Base Level City GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-175	EPA Calculated Baseline Base Level Highway GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-176	EPA Calculated Baseline Base Level Combined GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-177	EPA Calculated Final Base Level City GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-178	EPA Calculated Final Base Level Highway GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-179	EPA Calculated Final Base Level Combined GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-180	EPA Calculated Base Level GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-181	EPA Calculated Baseline Configuration City GHG Value 1 decimal	New Data Element
11/23/2010	CAFÉ	CA-182	EPA Calculated Baseline Configuration Highway GHG Value 1 decimal	New Data Element

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11/23/2010	CAFÉ	CA-183	EPA Calculated Baseline Configuration Combined GHG Value 1 decimal	New Data Element
11/20/2010	0/11 2		EPA Calculated Final Configuration City GHG Value 1	New Bala Element
11/23/2010	CAFÉ	CA-184	decimal	New Data Element
			EPA Calculated Final Configuration Highway GHG	
11/23/2010	CAFÉ	CA-185	Value 1 decimal	New Data Element
		0.1.100	EPA Calculated Final Configuration Combined GHG	
11/23/2010	CAFÉ	CA-186	Value 1 decimal	New Data Element
	,	CA-187		
11/23/2010	CAFÉ	6/110/	EPA Calculated Configuration GHG Production Units	New Data Element
		CA-188	EPA Calculated Baseline Subconfiguration City GHG	
11/23/2010	CAFÉ	6/1100	Value 1 decimal	New Data Element
	_	CA-189	EPA Calculated Baseline Subconfiguration Highway	
11/23/2010	CAFÉ	07-103	GHG Value 1 decimal	New Data Element
		CA-190	EPA Calculated Final Subconfiguration City GHG Value	
11/23/2010	CAFÉ	CA-190	1 decimal	New Data Element
		CA-191	EPA Calculated Final Subconfiguration Highway GHG	
11/23/2010	CAFÉ	CA-191	Value 1 decimal	New Data Element
		04.400	EPA Calculated Subconfiguration GHG Production	
11/23/2010	CAFÉ	CA-192	Units	New Data Element
		0.4.402	Manufacturer Subconfiguration Final Model Year GHG	
11/23/2010	CAFÉ	CA-193	Production Units	New Data Element
				otal New CAFÉ DE's: n=66
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	CAFÉ	CA-3	Process Code	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-0	Manufacturer Code	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-1	Model Year	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-4	CAFE/GHG Compliance Category	Edit to DE Name & Feature(s)
11/23/2010			CAFE/GHG Final Status Indicator	Edit to DE Name & Feature(s)
	CAFE	CA-4.5		
11/20/2010	CAFÉ	CA-4.5		
	-	CA-4.5 CA-53	EPA Calculated Official Model Year Truck CAFE	
11/23/2010	CAFE	CA-53	EPA Calculated Official Model Year Truck CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ		EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic	Edit to DE Name & Feature(s)
	-	CA-53 CA-54	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	
11/23/2010 11/23/2010	CAFÉ	CA-53	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-53 CA-54 CA-55	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010 11/23/2010 11/23/2010	CAFÉ CAFÉ CAFÉ	CA-53 CA-54	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010 11/23/2010	CAFÉ	CA-53 CA-54 CA-55	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010 11/23/2010 11/23/2010	CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010 11/23/2010 11/23/2010	CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51	EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal         EPA Calculated Baseline Domestic Passenger Vehicle	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal         EPA Calculated Baseline Domestic Passenger Vehicle         CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal         EPA Calculated Baseline Domestic Passenger Vehicle         CAFE Unrounded Unadjusted 4 Decimal         EPA Calculated Baseline Import Passenger Vehicle	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 CA-60	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal         EPA Calculated Baseline Domestic Passenger Vehicle         CAFE Unrounded Unadjusted 4 Decimal         EPA Calculated Baseline Import Passenger Vehicle         CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)
11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010       11/23/2010	CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ	CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 CA-60	EPA Calculated Official Model Year Truck CAFE         Production Units         EPA Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         EPA Calculated Official Model Year Import Passenger         Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Truck         CAFE Production Units         Manufacturer Calculated Official Model Year Domestic         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         Manufacturer Calculated Official Model Year Import         Passenger Vehicle CAFE Production Units         EPA Calculated Baseline Truck CAFE Unrounded 4         Decimal         EPA Calculated Baseline Domestic Passenger Vehicle         CAFE Unrounded Unadjusted 4 Decimal         EPA Calculated Baseline Import Passenger Vehicle	Edit to DE Name & Feature(s) Edit to DE Name & Feature(s)

11/23/2010	CAFÉ	CA-66	EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-67	EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-70	EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-71	EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-56	Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-57	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-58	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-62	Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-64	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-65	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-68	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-69	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-75	EPA Calculated Final Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-76	EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-77	EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-79	EPA Calculated Final Truck CAFE Rounded 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-82	EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-83	EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-86	EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-87	EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-72	Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)

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11/23/2010	CAFÉ	CA-73	Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/20/2010	0/112	+	Manufacturer Calculated Final Import Passenger	
11/23/2010	CAFÉ	CA-74	Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
			Manufacturer Calculated Final Domestic Passenger	
		CA-80	Vehicle CAFE Rounded Test Procedure Adjusted 4	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
			Manufacturer Calculated Final Import Passenger	· · ·
		CA-81	Vehicle CAFE Rounded Test Procedure Adjusted 4	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
		1	Manufacturer Calculated Final Domestic Passenger	
		CA-84	Vehicle CAFE Rounded Test Procedure Adjusted 1	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
			Manufacturer Calculated Final Import Passenger	
		CA-85	Vehicle CAFE Rounded Test Procedure Adjusted 1	
11/23/2010	CAFÉ	0,700	Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-91	EPA Official Truck CAFE Miles Per Gallon	Edit to DE Feature(s)
11/20/2010	O/II E		EPA Official Domestic Passenger Vehicle CAFE Miles	
11/23/2010	CAFÉ	CA-92	Per Gallon	Edit to DE Feature(s)
11/23/2010	OALE		EPA Official Import Passenger Vehicle CAFE Miles Per	
11/23/2010	CAFÉ	CA-93	Gallon	Edit to DE Feature(s)
11/23/2010	CAFE		Manufacturer Calculated Official Truck CAFE Miles Per	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-88	Gallon	Edit to DE Nome & Eastura(a)
11/23/2010			Manufacturer Calculated Official Domestic Passenger	Edit to DE Name & Feature(s)
44/00/0040	CAFÉ	CA-89		
11/23/2010			Vehicle CAFE Miles Per Gallon	Edit to DE Name & Feature(s)
4.4.100.100.4.0		CA-90	Manufacturer Calculated Official Import Passenger	
11/23/2010	CAFÉ		Vehicle CAFE Miles Per Gallon	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-11	CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-14.1	Test Group	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-21.5	EPA Calculated Footprint Target FE Value (miles per gallon)	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-22	EPA Calculated Unrounded Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-22.3	Calculated Unrounded Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-22.7	EPA Calculated Final Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-22.7 CA-25.1	Carline Manufacturer Code	Edit to DE Feature(s)
11/23/2010	UAFE		EPA Calculated Baseline Configuration City FE Value 4	Euli to DE reature(s)
11/23/2010	CAFÉ	CA-110	decimal	Edit to DE name
11/23/2010	CAFE	CA 24	Equivalent Test Weight (ETW)	Edit to DE hame Edit to DE Feature(s)
11/23/2010	CAFE	CA-31 CA-124	Manufacturer Code	Edit to DE Feature(s)
11/23/2010	CAFE	CA-124 CA-125	Division Code	
11/23/2010	CAFE CAFÉ	CA-125 CA-126	Carline Code	Edit to DE Feature(s)
	CAFE			Edit to DE Feature(s)
11/23/2010	CAFE	CA-34	Test Group	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-32	Manufacturer Subconfiguration Final Model Year FE	
			Production Units	Edit to DE Feature(s)
				Total Edited CAFÉ DE's: n=61
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	CAFÉ	CA-21	Manufacturer Calculated Footprint Target FE Value	
			(miles per gallon)	Deleted Data Element
	4	CA-21.7	EPA Calculated Footprint Target FE Discrepancy	
11/23/2010	CAFÉ	0	Value	Deleted Data Element

			EPA Calculated Baseline Subconfiguration Combined	
11/23/2010	CAFÉ	CA-119	FE Value 4 decimal	Deleted Data Element
11/23/2010			EPA Calculated Final Subconfiguration Combined FE	
11/23/2010	CAFÉ	CA-122	Value 4 decimal	Deleted Data Element
11/20/2010				Total Deleted CAFÉ DE's: n=4
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	FE Label	GL-78.2	Model Type Descriptor	Edit to DE Feature(s)
		GL-79.1	5 Cycle Hybrid Fuel Economy Label Calculation	
11/23/2010	FE Label		Approach	Edit to DE Feature(s)
		<b>0</b> 1 <b>- 1 -</b>	Charge Depleting Fuel Economy Label Calculation	
11/23/2010	FE Label	GL-79.2	Approach	Edit to DE Feature(s)
		01 70 0	Charge Sustaining Fuel Economy Label Calculation	
11/23/2010	FE Label	GL-79.3	Approach	Edit to DE Feature(s)
11/23/2010	FE Label	GL-123	Equivalent Test Weight (ETW)	Edit to DE Feature(s)
11/23/2010	FE Label	GL-130.5	Test 5-Cycle Category	Edit to DE Feature(s)
		01 170 1		
11/23/2010	FE Label	GL-173.1	Manufacturer-Calculated Gas Guzzler Mile Per Gallon	Edit to DE Feature(s)
				Total Edited FE Label DE's: n=7
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	Road Load	RL-1	Process Code	Edit to DE Feature(s)
11/23/2010	Road Load	RL-1.5	Road Load Index	Edit to DE Feature(s)
11/23/2010	Road Load	RL-1.6	Model Year	Edit to DE Feature(s)
11/23/2010	Road Load	RL-2	FE Label Model Type Index	Edit to DE Feature(s)
11/23/2010	Road Load	RL-3	FE Label Subconfiguration Index	Edit to DE Feature(s)
11/23/2010	Road Load	RL-4	Test Group	Edit to DE Feature(s)
11/23/2010	Road Load	RL-5	Engine Code	Edit to DE Feature(s)
11/23/2010	Road Load	RL-5.1	Equivalent Engine Code(s)	Edit to DE Feature(s)
11/23/2010	Road Load	RL-6	In-Use Engine Code Decoder	Edit to DE Feature(s)
11/23/2010	Road Load	RL-7	Displacement	Edit to DE Feature(s)
11/23/2010	Road Load	RL-14	Transmission as listed in the FE Guide	Edit to DE Feature(s)
11/23/2010	Road Load	RL-15	Axle Ratio	Edit to DE Feature(s)
11/23/2010	Road Load	RL-16	Rim and tire size	Edit to DE Feature(s)
11/23/2010	Road Load	RL-17	Tire Type	Edit to DE Feature(s)
11/23/2010	Road Load	RL-18	Tire Manufacturer	Edit to DE Feature(s)
11/23/2010	Road Load	RL-19	N/V Ratio	Edit to DE Feature(s)
11/23/2010	Road Load	RL-20	Curb Weight	Edit to DE Feature(s)
11/23/2010	Road Load	RL-21	ETW	Edit to DE Feature(s)
11/23/2010	Road Load	RL-22	Manufacturer-Calculated Total Road Load Horsepower	Edit to DE Feature(s)
11/23/2010	Road Load	RL-24	Target Coefficient A (F0) (lbf)	Edit to DE Feature(s)
11/23/2010	Road Load	RL-25	Target Coefficient B (F1) (lbf/mph)	Edit to DE Feature(s)
11/23/2010	Road Load	RL-26	Target Coefficient C (F2) (lbf/mph**2)	Edit to DE Feature(s)
11/23/2010	Road Load	RL-27	Road Load Determination Method	Edit to DE Feature(s)
				Total Edited Road Load DE's: n=23