

CFEIS Engine Systems Information Entry Form (SAMPLE)



Entry Field 1:
Input Record Type

E	1
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Entry Field 2:
Process Code

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Entry Field 3:
Engine Family/Test Group Name

1	T	M	X	V	0	3	.	2	A	B	C
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Entry Field 4:
Engine System Number

0	1
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Entry Field 5:
Special Compliance Indicator Code

N

Entry Field 6:
Alternate Displacement 1

						.				
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Entry Field 7:
Alternate Displacement 2

						.				
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Entry Field 8:
Alternative Displacement 3

						.				
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Entry Field 9:
Combustion Cycle

G

Entry Field 10:
Ignition Type

S

Entry Field 11:
Basic Fuel Metering System

1	2
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Entry Field 12:
Valves per Cylinder

0	4
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Entry Field 13:
Turbocharger Supercharger

N

Entry Field 14:
Catalyst Construction

1	0
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Entry Field 15:
Trap

0	0
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Entry Field 16:
California OBD

2

Entry Field 17:
Federal OBD

Y

Entry Field 18:
Projected Job 1 Date

0	6	3	1	2	0	0	0
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Entry Field 19:
Trip Point

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Entry Field 20:
Production Model Year Code

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Entry Field 21:
Preconversion Model Year Code

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Entry Field 22:
CAP2000

2

Entry Field 23:
SFTP Compliance

Y

Entry Field 24:
SFTP Composite CO option for Tier 1 or TLEV or other applicable tier levels

Y



E1 - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E1
Entry Field 2	Process Code	See CMUG - Appendix D
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Special Compliance Indicator Code	Y - Yes N - No
Entry Field 6	Alternate Displacement 1	0000.000-8193.500 or blank
Entry Field 7	Alternate Displacement 2	0000.000-8193.500 or blank
Entry Field 8	Alternate Displacement 3	0000.000-8193.500 or blank
Entry Field 9	Combustion Cycle	G - Otto Cycle Piston D - Diesel Cycle R - Otto Cycle Rotary See CMUG - Appendix D for more codes
Entry Field 10	Ignition Type	S - Spark C - Compression N - Not Applicable See Note in CMUG - Appendix D
Entry Field 11	Basic Fuel Metering System	See CMUG -Appendix D
Entry Field 12	Valves per Cylinder	See CMUG - Appendix D
Entry Field 13	Turbocharger Supercharger	See CMUG - Appendix D
Entry Field 14	Catalyst Construction	See CMUG - Appendix D

Entry Field 15	Trap	1 - Trap - Active Regeneration 2 - Trap - Continuous Regeneration 3 - Trap - Continuous Regen + Fuel Additive 99 - Other (Contact EPA prior to use) See Note in CMUG - Appendix D
Entry Field 16	California OBD	N - No OBD 1 - CARB OBD I 2 - CARD OBD II D - OBD with Deficiencies See Note in CMUG - Appendix D
Entry Field 17	Federal OBD	Y - OBD N - No OBD D - Yes with Deficiencies See Note in CMUG - Appendix D
Entry Field 18	Projected Job 1 Date	Valid calendar date. Note: Business rule error if the value after update is blank or null. (mmddyyyy)
Entry Field 19	Trip Point	000000-999999 or blank
Entry Field 20	Production Code	0 - 5 Note: Indicates the number of years earlier than the certification model year.
Entry Field 21	Preconversion Code	0 - 5 Note: Indicates the number of years earlier than the certification model year.
Entry Field 22	CAP2000	0 - Prior to CAP2000 1 - CAP2000 (Early opt-in) 2 - Full CAP2000 (with Durability Group data)
Entry Field 23	SFTP Compliance	Y or N (default)
Entry Field 24	SFTP Composite CO option for Tier 1 or TLEV or other applicable tier levels	Y or N (default)

CFEIS Engine Systems Information Entry Form (SAMPLE)



Entry Field 1:
Input Record
Type

E	R
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Entry Field 2:
Durability Group Name

1	T	M	X	G	P	G	N	N	A	B	C
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Entry Field 3:
Catalyst Precious Metal
Combination

3

Entry Field 4:
Fuel Combination

S



ER - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ER
Entry Field 2	Durability Group Name	ER record is required if CAP2000 field (col 91 on E1) is 2 and is to be placed between E1 and ZZ records.
Entry Field 3	Catalyst Precious Metal Combination	Required if the DG (Durability Group) Name is not in the data base. 1 - Platinum based oxidation catalyst 2 - Palladium based oxidation catalyst 3 - Platinum and palladium oxidation catalyst 4 - Platinum and rhodium three-way catalyst 5 - Palladium and rhodium three-way catalyst 6 - Platinum and palladium and rhodium three-way catalyst
Entry Field 4	Fuel Combination	Required if the DG (Durability Group) Name is not in the data base. S - Single fuel D - Dual fuel F - Flexible fuel



ED and EE - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ED The ED Record has been removed. This Record is no longer required and should not be submitted.
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Entry Field 1	Input Record Type	EE The EE Record does not apply to 2001 or later CAO2000 data and should not be entered.
Entry Field 2	EERC/EVERC Process Code	For <i>Add</i> : 'A' or <i>blank</i> - '' For <i>Replace</i> : 'R' For <i>Delete</i> : 'D'
Entry Field 3	EERC/EVERC Code	See CMUG - Appendix D



EC - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Text <i>Note:</i> Comment text is appended to the end of any existing comment text for Engine Family System.

CFEIS Engine Systems Information Entry Form (SAMPLE)



Entry Field 1:
Input Record
Type

E	2
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Entry Field 2:
Process Code

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Entry Field 3:
Engine Family/Test Group Name

1	T	M	X	V	0	3	.	2	A	B	C
---	---	---	---	---	---	---	---	---	---	---	---

Entry Field 4:
Engine System Number

0	1
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Entry Field 5:
Engine Family
Subsystem Number

2

Entry Field 6:
Model Year

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Entry Field 7:
Sales Area Code

C	A
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Entry Field 8:
Projected Sales
(OBSOLETE)

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Entry Field 9:
Actual Production
(OBSOLETE)

--	--	--	--	--	--	--	--

Entry Field 10:
DF Type

1

Entry Field 11:
GVW Category

C	L	D	V		
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Entry Field 12:
Vehicle Class

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Entry Field 1:
Input Record
Type

E	S
---	---

Entry Field 2:
Process Code

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Entry Field 3:
Emission Standards
Fuel Type Code

G		
---	--	--

Entry Field 4:
Exhaust Emission
Standard Code

C	T
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E2 and ES Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E2
Entry Field 2	Process Code	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D' For Report: 'P' For Cancel: 'F' For Reactivate: 'G'
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Engine Family Subsystem Number	1-9
Entry Field 6	Model Year	1970-2100 <i>Note:</i> Defaults to derived Engine Family Model Year
Entry Field 7	Sales Area Code	See CMUG - Appendix D
Entry Field 8	Projected Sales	(Obsolete)
Entry Field 9	Actual Production	(Obsolete)
Entry Field 10	DF Type	See CMUG - Appendix D
Entry Field 11	GVW Category	See CMUG - Appendix D
Entry Field 12	Vehicle Class	Standard Engine Family Vehicle Class

Entry Field 1	Input Record Type	ES
Entry Field 2	Process Code	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D'
Entry Field 3	Emission Standards Fuel Type Code	G - Gasoline D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) L - Liquid Petroleum Gas (1994- 1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable
Entry Field 4	Exhaust Emission Standard Code	Text (01-32 and AA through ZZ) Standard Engine Family Standard

CFEIS Engine Systems Information Entry Form (SAMPLE)



Entry Field 1:
Input Record Type

E	G
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Entry Field 2:
Process Code

Entry Field 3:
Useful Life

0	5	0
1	0	0
0	5	0
1	0	0

Entry Field 4:
Cert / In Use Code

C
C
C
C

Entry Field 5:
Tier

T	L	E	V
T	L	E	V
T	L	E	V
T	L	E	V

Entry Field 6:
Emission Name

N	M	O	G																
N	M	O	G																
C	O																		
C	O																		

Entry Field 7:
Emission Standard

	0	•	1	2	5	
	0	•	1	5	6	
	3	•	4			
	4	•	2			

Entry Field 8:
Phase In Percentage

1	0	0
1	0	0
1	0	0
1	0	0

Entry Field 9:
Multiplicative DF

1	•	1	5	9
1	•	2	9	8
1	•	1	1	7
1	•	3	2	0

Entry Field 10:
Additive DF

		•					
		•					
		•					
		•					

Entry Field 11:
Averaging Flag

Entry Field 12:
Banking and Trading Indicator

Entry Field 13:
Non-Compliance Penalty Flag

Entry Field 14:
Waiver Flag



EG - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	EG
Entry Field 2	Process Code	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D'
Entry Field 3	Useful Life	000-999, N/A
Entry Field 4	Cert / In Use Code	C - Certification I - In Use <i>Note:</i> Value C is assigned as a default if input is blank.
Entry Field 5	Tier	T0 - Tier 0 T1 - Tier 1 T2 - Tier 2 ILEV - Inherently Low Emission Vehicle TLEV - California only - Transitional Low Emission Vehicle LEV - Low Emission Vehicle ULEV - Ultra Low Emission Vehicle SLEV - Super Ultra Low Emission Vehicle ZEV - Zero Emission Vehicle N/A - Not Applicable T1I - Tier 1 Intermediate
Entry Field 6	Emission Name	See CMUG - Appendix D
Entry Field 7	Emission Standard	000.0000 - 999.9999 See CMUG - Appendix D Business rule error if the value after update is blank or null.
Entry Field 8	Phase In Percentage	000-100, <i>blank</i> Assign value 0 as a default if the value after update is blank or null.

Entry Field 9	Multiplicative DF	0.000 - 9.999 <i>Note:</i> This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 1 when the value entered is less than 1.
Entry Field 10	Additive DF	-9.999999 - 9.999999 <i>Note:</i> This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 0 when the value entered is less than 0.
Entry Field 11	Averaging Flag	Y, N, <i>blank</i> <i>Note:</i> Assign value N as a default if the value after update is blank or null.
Entry Field 12	Banking and Trading Indicator	B, T, N, <i>blank</i> <i>Note:</i> Assign value N as a default if the value after update is blank or null.
Entry Field 13	Non-Compliance Penalty Flag	Y, N, <i>blank</i> <i>Note:</i> Assign value N as a default if the value after update is blank or null.
Entry Field 14	Waiver Flag	Y, N, <i>blank</i> <i>Note:</i> Assign value N as a default if the value after update is blank or null.



ET - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ET
Entry Field 2	Comments	Text Note: Comment text is appended to the end of any existing comment text for Engine Family Subsystem.