













## Example Template - HDV Tier 3 Class 2b/3 FTP Fleet Average (NMOG + NOx) Credits - AB&T Model Year Summary Table

Manufacturer: \_\_\_\_\_

Date: \_\_\_\_\_

### Purpose and Scope of this Guidance Document

This document was prepared by EPA's Office of Transportation and Air Quality (OTAQ). It is one of several intended to aid regulated parties in reporting Tier 3 and Cold NMHC Averaging, Banking and Trading (AB&T) information and calculating AB&T fleet average credits for light-duty vehicles and certain heavy-duty class 2b and 3 vehicles, ref. 40 CFR 86.1862-04(c). It contains EPA's recommended format for manufacturers to report to EPA their end-of-year Tier 3 AB&T calculations, credits and other information with respect to the implementation of the AB&T provisions of the EPA Tier 3 final rule (79 FR 23414, April 28, 2014) as amended (80 FR 9078, February 19, 2015; 80 FR 26463, May 8, 2015); ref. 40 CFR Parts 85, 86, 600, 1065, 1066. Use of this document is purely optional.

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<b>Select Model Year:</b>	2019
<b>Select Phase-in Approach:</b>	Primary--(Used for 2016-2021MYS)
<b>Applicable Phase-in Regulations:</b>	40 CFR 86.1816-18(b)(7) and/or (b)(11)
<b>Small Volume?</b>	No

A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable FTP Standards gram/mi	E. Mfr FTP Compliance Level gram/mi	F. Production Volume units					

**2016 Early Credits:**

5/1/2017	2016	HD Class 2b	0.333	0.302	10,002	310	12/31/2016	12/31/2021	12/31/2021	2016 Early Tier 3 HD Class 2b FTP Credits earned per 40 CFR 86.1816-18(b)(11); see other spreadsheet.
5/1/2017	2016	HD Class 3	0.548	0.421	1,000	127	12/31/2016	12/31/2021	12/31/2021	2016 Early Tier 3 HD Class 3 FTP Credits earned per 40 CFR 86.1816-18(b)(11); see other spreadsheet.
4/1/2019	2016	Transfer	-	-	-	(437)	12/31/2016	-	-	Transferred 437 Credits from 2016 model year to 2018 model year (earned on 12/31/2016).
<b>Total 2016 Early Credits Remaining:</b>						<b>0</b>				

**2017 Early Credits:**

5/1/2018	2017	HD Class 2b	0.310	0.298	21,784	261	12/31/2017	12/31/2022	12/31/2022	2017 Early Tier 3 HD Class 2b FTP Credits earned per 40 CFR 86.1816-18(b)(11); see other spreadsheet.
5/1/2018	2017	HD Class 3	0.508	0.501	1,000	7	12/31/2017	12/31/2022	12/31/2022	2017 Early Tier 3 HD Class 3 FTP Credits earned per 40 CFR 86.1816-18(b)(11); see other spreadsheet.
4/1/2019	2017	Transfer	-	-	-	(268)	12/31/2017	-	-	Transferred 268 Credits from 2017 model year to 2018 model year (earned on 12/31/2017).
<b>Total 2017 Early Credits Remaining:</b>						<b>0</b>				

**Total 2016-2017 Early Credits Remaining: 0**

**2018 Credits:**

5/1/2019	2018	HD Class 2b	0.278	0.298	58,471	(1,169)	12/31/2018	12/31/2023	12/31/2023	2018 Tier 3 HD Class 2b FTP Credits earned using Primary phase-in approach; see other spreadsheet.
5/1/2019	2018	HD Class 3	0.451	0.460	10,000	(90)	12/31/2018	12/31/2023	12/31/2023	2018 Tier 3 HD Class 3 FTP Credits earned using Primary phase-in approach; see other spreadsheet.
4/1/2019	2016	Transfer	-	-	-	437	12/31/2016	-	-	Transferred 437 Credits from 2016 model year to 2018 model year (earned on 12/31/2016).
4/1/2019	2017	Transfer	-	-	-	268	12/31/2017	-	-	Transferred 268 Credits from 2017 model year to 2018 model year (earned on 12/31/2017).
1/20/2019	2018	Transfer	-	-	-	500	12/31/2016	12/31/2021	12/31/2021	Purchased 500 HDV FTP credits from Manufacturer A (earned on 12/31/2016)
<b>Total 2018 Credits Remaining:</b>						<b>(54)</b>				

**Total 2016-2018 Credits Remaining: (54)**

**2019 Credits:**

5/1/2020	2019	HD Class 2b	0.253	#NAME?	193,840	#NAME?	12/31/2019	12/31/2024	12/31/2024	2019 Tier 3 HD Class 2b FTP Credits earned using Primary or Alternative phase-in approach; see other spreadsheet.
5/1/2020	2019	HD Class 3	0.400	#NAME?	340,000	#NAME?	12/31/2019	12/31/2024	12/31/2024	2019 Tier 3 HD Class 3 FTP Credits earned using Primary or Alternative phase-in approach; see other spreadsheet.
3/4/2020	2019	Transfer	-	-	-	1,000	12/31/2019	-	-	Purchased 1,000 2019 HDV FTP Credits to Manufacturer B (earned on 12/31/2019).
<b>Total 2019 Credits Remaining:</b>						<b>#NAME?</b>				

**Grand Total 2016-2019 Credits Remaining: #NAME?**

[Note: D.Good revised this formula on 8/24/2018]















# Example Template - LDV/LDT/MDPV Fleet Average Cold NMH

Manufacturer: \_\_\_\_\_

## Purpose and Scope of this Guidance D

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<b>Select Model Year:</b>	<b>2019</b>
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A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded
			D. Applicable Cold NMHC Fleet Average Standard	E. Fleet Ave Cold NMHC Compliance Level	F. Production Volume (Nationwide)				
			gram/mi	gram/mi	units	gram/mi			

**2010 Credits:**

5/1/2011	2010	LDV/LLDT	0.3	0.3	10,002	0	12/31/2010	No expiration date	Not Limited
	2010	Transfer	-	-	-	-	-	-	-
<b>Total 2010 Credits Remaining:</b>						<b>0</b>			

**2011 Credits:**

5/1/2012	2011	LDV/LLDT	0.3	0.3	10,002	0	12/31/2011	No expiration date	Not Limited
5/1/2012	2011	HLDT/MDPV	0.5	0.4	1,000	100	12/31/2012	No expiration date	Not Limited
	2011	Transfer	-	-	-	-	-	-	-
<b>Total 2011 Credits Remaining:</b>						<b>100</b>			

**2012 Credits:**

5/1/2013	2012	LDV/LLDT	0.3	0.3	10,002	0	12/31/2012	No expiration date	Not Limited
5/1/2013	2012	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2012	No expiration date	Not Limited
	2012	Transfer	-	-	-	-	-	-	-
<b>Total 2012 Credits Remaining:</b>						<b>0</b>			

**2013 Credits:**

5/1/2014	2013	LDV/LLDT	0.3	0.3	10,002	0	12/31/2013	No expiration date	Not Limited
5/1/2014	2013	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2013	No expiration date	Not Limited
	2013	Transfer	-	-	-	-	-	-	-
<b>Total 2013 Credits Remaining:</b>						<b>0</b>			

**2014 Credits:**

5/1/2015	2014	LDV/LLDT	0.3	0.3	10,002	0	12/31/2014	No expiration date	Not Limited
5/1/2015	2014	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2014	No expiration date	Not Limited
	2014	Transfer	-	-	-	-	-	-	-
<b>Total 2014 Credits Remaining:</b>						<b>0</b>			

**2015 Credits:**

# Example Template - LDV/LDT/MDPV Fleet Average Cold NMH

Manufacturer: \_\_\_\_\_

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<b>Select Model Year:</b>	<b>2019</b>
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A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F] gram/mi	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded
			D. Applicable Cold NMHC Fleet Average Standard gram/mi	E. Fleet Ave Cold NMHC Compliance Level gram/mi	F. Production Volume (Nationwide) units				
5/1/2016	2015	LDV/LLDT	0.3	0.3	10,002	0	12/31/2015	No expiration date	Not Limited
5/1/2016	2014	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2015	No expiration date	Not Limited
	2015	Transfer	-	-	-	-	-	-	-
<b>Total 2015 Credits Remaining:</b>						<b>0</b>			

**2016 Credits:**

5/1/2017	2016	LDV/LLDT	0.3	0.2	10,002	1,000	12/31/2016	No expiration date	Not Limited
5/1/2017	2016	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2016	No expiration date	Not Limited
	2016	Transfer	-	-	-	-	-	-	-
<b>Total 2016 Credits Remaining:</b>						<b>1,000</b>			

**2017 Credits:**

5/1/2018	2017	LDV/LLDT	0.3	0.3	21,784	0	12/31/2017	No expiration date	Not Limited
5/1/2018	2017	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2017	No expiration date	Not Limited
	2017	Transfer	-	-	-	-	-	-	-
<b>Total 2017 Credits Remaining:</b>						<b>0</b>			

**Total 2010-2017 Credits Remaining: 1,100**

**2018 Credits:**

5/1/2019	2018	LDV/LLDT	0.3	0.4	28,471	(2,847)	12/31/2018	No expiration date	Not Limited
5/1/2019	2018	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2018	No expiration date	Not Limited
1/20/2019	2018	Transfer	-	-	-	2,000	12/31/2016	No expiration date	Not Limited
<b>Total 2018 Early Credits Remaining:</b>						<b>(847)</b>			

**Total 2010-2018 Credits Remaining: 253**

**2019 Credits:**

5/1/2020	2019	LDV/LLDT	0.3	0.3	53,458	0	12/31/2019	No expiration date	Not Limited
5/1/2020	2019	HLDT/MDPV	0.5	0.5	1,000	0	12/31/2019	No expiration date	Not Limited
	2019	Transfer	-	-	-	-	-	-	-

# Example Template - LDV/LDT/MDPV Fleet Average Cold NMH

Manufacturer: \_\_\_\_\_

### Purpose and Scope of this Guidance D

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<b>Select Model Year:</b>	<b>2019</b>
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A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded
			D. Applicable Cold NMHC Fleet Average Standard	E. Fleet Ave Cold NMHC Compliance Level	F. Production Volume (Nationwide)				
			gram/mi	gram/mi	units	gram/mi			
<b>Total 2019 Credits Remaining:</b>						<b>0</b>			
<b>Grand Total 2010-2019 Credits Remaining:</b>						<b>253</b>			

# IC Credits - AB&T Model Year Summary Table

Date: \_\_\_\_\_

## Document

This document provides information on Averaging, Banking and Trading (AB&T) information and calculating AB&T fleet average credits for light-duty vehicles and certain heavy-duty vehicles and other information with respect to the implementation of the AB&T provisions of the EPA Tier 3 final rule (79 FR 23414, April 28, 2014) as

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Comments

2010 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2011 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

Early 2011 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1811-10(g)(2)(iv) & 86.1864-10(o)(5); see other spreadsheet.

2012 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2012 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2013 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2013 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2014 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2014 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

EPA Form Number 5900-470

OMB Control Number 2060-0104

Expires XX/XX/XXXX

EPA ICR Number 0783.65

# IC Credits - AB&T Model Year Summary Table

Date: \_\_\_\_\_

EPA Form Number 5900-470

OMB Control Number 2060-0104

Expires XX/XX/XXXX

EPA ICR Number 0783.65

## Document

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## Comments

2015 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2015 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2016 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2016 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2017 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2017 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2018 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

2018 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see other spreadsheet.

Purchased 2000 Cold NMHC credits from Manufacturer A (earned on 12/31/2016)

2019 LDV/LDT Cold NMHC Credits earned per 40 CFR 86.1864-10; see attached spreadsheet.

2019 HLDT/MDPV Cold NMHC Credits earned per 40 CFR 86.1864-10; see attached spreadsheet.

# IC Credits - AB&T Model Year Summary Table

Date: \_\_\_\_\_

## Document

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Comments

EPA Form Number 5900-470

OMB Control Number 2060-0104

Expires XX/XX/XXXX

EPA ICR Number 0783.65

**Example Template - LDV/LDT/HDV Federal Tier 3 Evaporative (Hot Soak + Diurnal) Emissions - Fleet Average Calculations for One Model Year**

Manufacturer: \_\_\_\_\_

Date: \_\_\_\_\_

EPA Form Number 5900-470

OMB Control Number 2060-0104

Expires XXXX/XXXX

EPA ICR Number 0783.65

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Instructions

Select Model Year: **2019**

Enter "X" if all vehicles are certified at or below fleet average standard and you omit credit calculations per 40 CFR 86.18160-17(f):	
Averaging Set	Check if applicable:
LDV/LDT:	
LDT2:	
HLDT/MDPV:	
HDV:	

Tier 3 Evaporative LDV/LDT1 Averaging Set				
Evaporative Emissions	Total Production of Averaging Set	Fleet average compliance value	Fleet average standard	Credits or Debits
		grams/test	grams/test	vehicle-grams/test
E10 Total HC Equivalent	79,840	#NAME?	0.300	#NAME?

Tier 3 Evaporative LDT2 Averaging Set				
Evaporative Emissions	Total Production of Averaging Set	Fleet average compliance value	Fleet average standard	Credits or Debits
		grams/test	grams/test	vehicle-grams/test
E10 Total HC Equivalent	134,000	#NAME?	0.400	#NAME?

Tier 3 Evaporative HLDT/MDPV Averaging Set				
Evaporative Emissions	Total Production of Averaging Set	Fleet average compliance value	Fleet average standard	Credits or Debits
		grams/test	grams/test	vehicle-grams/test
E10 Total HC Equivalent	120,049	#NAME?	0.500	#NAME?

Tier 3 Evaporative HDV Averaging Set				
Evaporative Emissions	Total Production of Averaging Set	Fleet average compliance value	Fleet average standard	Credits or Debits
		grams/test	grams/test	vehicle-grams/test
E10 Total HC Equivalent	116,000	#NAME?	0.600	#NAME?

Evaporative Family (including Early Allowance Evap Families)	Vehicle Class of Evap Family (and Averaging Set)	FEL of Evap Family (low altitude)	Class of HDV (Needed only if Column B is HDV)	HDV Class - 4-8 Certification Basis (If Statement, Can't Earn Credits)	HDV also meets ORVR Standards (Needed for Allowances for Class 3 and above HDVs)	Evap Family Useful Life Miles	Evap Family Useful Life of Averaging Set (must be 150K)	Test Fuel (Diurnal test)	2015 or 2016 Carryover PZEV Option 1 (Rig Test) Using Phase 2 test fuel?	2015 or 2016 CARB LEV3 Option 1 (Rig Test) Carryover?	Early Allowance Evap Family (Not used to meet Phase-in Requirements; Not used for 2017 Nationwide PZEV Phase-in Option?) [Can be 2015-2016 Carryover CARB Option1, CARB Option2 or Tier3 Evap Family]	Model Year Early Allowance Was Earned	Production (Federal only) (Needed for 2017MY & LDV/LLDT/HLDT Allowances)	Production (Go-State)	Manufacturer Comments	Fleet Ave Standard for Vehicle Class [derived from class in Column B]	FEL Used for Fleet Average Calculations [Derived from Columns B, C, E, J, K, W]	Production used in Calcs [Derived from Columns P & Q]	Evap Intermediate Calculation [Unrounded Production x FEL]	Error Checks							
																				Yes or No	(And Using LEV 3 test fuel): Yes or No	(Note: Early Allowances Expire after 2021 MY): Yes or No	2015, 2016, 2017 (>6000 GVWR only), or NA	# of Units	# of Units	Does FEL Exceed the CAP for the Vehicle Class?	Error Message from Column Y (if any)
																				gr/test; (HS + Diurnal)	[PZEVs, CARB Opt 1 Vehs, Allowances & some HDVs can't earn credits]	# of Units	Unrounded units x gr/test				
A	LDV/LDT1	0.150				150	150	LEV 3	No	No	No	NA	39,458			0.300	0.150	39,458	5918	OK							
B	LDV/LDT1	0.150				120	150	Tier 3	No	No	No	NA	20,382			0.300	0.150	20,382	3057	OK							
C (2015 PZEV)	LDV/LDT1	0.350				150	150	Phase 2	Yes	No	Yes	2015	20,000	2015 PZEV Carryover & 2015 Early Allowance. [Allowance vehs not used in Evap Phase-in calcs.] [Formatted comments field cells to "wrap text" as shown in example comments for this cell.]	0.300	0.300	20,000	6000	OK								
D	LDT2	0.300				150	150	Tier 3	No	No	No	NA	45,000			0.400	0.300	45,000	13500	OK							
E	LDT2	0.350				150	150	LEV 3	No	No	No	NA	79,000			0.400	0.350	79,000	27650	OK							
F (2015 PZEV)	LDT2	0.500				150	150	Phase 2	Yes	No	No	NA	10,000	2015 LDT2 PZEV Carryover	0.400	0.400	10,000	4000	OK								
G	HLDT/MDPV	0.400				150	150	Tier 3	No	No	No	NA	10,000			0.500	0.400	10,000	4000	OK							
H	HLDT/MDPV	0.500				150	150	Tier 3	No	No	No	NA	90,000			0.500	0.500	90,000	45000	OK							
I (LEV3 Opt 1 HLDY Carryover)	HLDT/MDPV	0.350				150	150	LEV 3	No	Yes	No	NA	3,000	2015 HLDY Carryover LEV3 Option 1 (Rig test) tested on LEV3 test fuel.	0.500	0.500	3,000	1500	OK								
J	HLDY Allowance only	0.350				150	150	LEV 3	No	No	Yes	2015	2,049	2015 Early Allowance (HLDY); [Allowance vehs not used in Evap Phase-in calcs]	0.500	0.350	2,049	717.15	OK								
K	HLDY Allowance only	0.500				150	150	LEV 3	No	No	Yes	2016	5,000	2016 Early Allowance (HLDY); [Allowance vehs not used in Evap Phase-in calcs]	0.500	0.500	5,000	2500	OK								
L	MDPV Allowance only	0.400				150	150	Tier 3	No	No	Yes	2017	10,000	2017 Early Allowance (MDPV); [Allowance vehs not used in Evap Phase-in calcs]	0.500	0.400	10,000	4000	OK								
M	HDV	0.150	2b			150	150	Tier 3	No	No	No	NA	60,000			0.600	0.150	60,000	9000	OK							
N (2017 Allowance)	HDV	0.350	2b			150	150	LEV 3	No	No	Yes	2017	2,500	2017 Early Allowance (HDV); certified to LEV3 Option 2 stds; not used in Evap Phase-in calcs	0.600	0.350	2,500	875	OK								
O	HDV	1.200	3			150	150	Tier 3	No	No	No	NA	45,000			0.600	1.200	45,000	54000	OK							
P (2016 Allowance which also	HDV	0.550	3	Statement	Yes	150	150	Tier 3	No	No	Yes	2016	2,500	2016 Early 2 for 1 Allowance (HDV class 3 & above veh certified to Evap&ORVR; not used in phase-in calcs)	0.600	0.550	5,000	2750	OK								
Q	HDV	0.500	4	Statement		150	150	NA	No	No	No	NA	2,500			0.600	0.600	2,500	1500	OK							
R	HDV	1.600	6	Statement		150	150	NA	No	No	No	NA	1,000			0.600	1.600	1,000	1600	OK							

A7: Office of Transportation and Air Quality  
August, 2018

A19: A7:

B10: A19:

B19: B10:

C19: B19:

D19: C19:

E19: D19:

F19: E19:

G19: F19:

J19: G19:

K8: J19:

K13: K8:

K19: K13:

L10: K19:

L15: L10:

L19: L15:

M8: L19:

M13: M8:

N19: M13:

O19: N19:

Q8: O19:

Q13: Q8:

R8: Q13:

R10: R8:

R15: R10:

S13: R15:

W19: S13:

Z19: W19:

AA19: Z19:

# Example Template - Tier 3 Evaporative Fleet Average (Hot Soak + Diurnal) Credits - AB&T Model Year Summary Table

Manufacturer: \_\_\_\_\_

Date: \_\_\_\_\_

EPA Form Number 5900-470  
 OMB Control Number 2060-0104  
 Expires XX/XX/XXXX  
 EPA ICR Number 0783.65

## Purpose and Scope of this Guidance Document

This document was prepared by EPA's Office of Transportation and Air Quality (OTAQ). It is one of several intended to aid regulated parties in reporting Tier 3 and Cold NMHC Averaging, Banking and Trading (AB&T) information and calculating AB&T fleet average credits for light-duty vehicles and certain heavy-duty class 2b and 3 vehicles, ref. 40 CFR 86.1862-04(c). It contains EPA's recommended format for manufacturers to report to EPA their end-of-year Tier 3 AB&T calculations, credits and other information with respect to the implementation of the AB&T provisions of the EPA Tier 3 final rule (79 FR 23414, April 28, 2014) as amended (80 FR 9078, February 19, 2015; 80 FR 26463, May 8, 2015); ref. 40 CFR Parts 85, 86, 600, 1065, 1066. Use of this document is purely optional.

This document does not in any way alter or waive the requirements in EPA regulations. Although the calculations and formulas provided in this document are intended to assist manufacturers in the implementation of EPA regulations, this document does not establish or change the legal rights or obligations of manufacturers or others in complying with EPA regulations, including 40 CFR 86.1862-04(c). If an error or other discrepancy is found in this document, including the calculation formulas, please contact your EPA certification team member or Dave Good at (734) 214-4450 or by email at good.david@epa.gov. The regulations take precedence.

Select Model Year:	2019
Select Phase-in Approach:	Primary--(Used for 2017-2022MYs)
Applicable Phase-in Regulations:	40 CFR 86.1813-17(a)(5) Table 3
Small Volume?	No

A. Date of Transaction	B. Model Year	C. Category	Tier 3 Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable Evap HS+D Standards	E. Mfr Evap HS+D Compliance Level	F. Production Volume					
			grams/test	grams/test	vehicles					

**2017 Credits (LDV/LDT1 and LDT2 Classes only):**

5/1/2018	2017	LDV/LDT1	0.300	0.300	21,784	0	12/31/2017	-	-	2017 Tier 3 LDV/LDT1 Evap Credits earned; see other spreadsheet.
5/1/2018	2017	LDT2	0.400	0.400	41,000	0	12/31/2017	-	-	2017 Tier 3 LDT2 Evap Credits earned; see other spreadsheet.
2017	2017	Transfer	-	-	-	-	-	-	-	

LDV/LDT1 - Total 2017 Credits Remaining:	0	2017 Credits expire Dec 31, 2022; Debits must be paid off by Dec 31, 2020.
LDT2 - Total 2017 Credits Remaining:	0	

**2018 Credits:**

5/1/2019	2018	LDV/LDT1	0.300	0.240	48,471	2,908	12/31/2018	12/31/2023	12/31/2023	
5/1/2019	2018	LDT2	0.400	0.400	98,769	0	12/31/2018	-	-	
5/1/2019	2018	HLDV/MDPV	0.500	0.560	28,461	(1,708)	12/31/2018	-	-	
1/20/2019	2018	HLDV/MDPV	Transfer	-	-	500	12/31/2018	12/31/2023	12/31/2023	Purchased 500 HLDV/MDPV Evaporative credits from Manufacturer A (earned on 12/31/2018)
5/1/2020	2019	HLDV/MDPV	Transfer	-	-	1,208	12/31/2019	12/31/2024	12/31/2024	Transferred 1208 HLDV/MDPV 2019 Evaporative credits from 2019 to 2018 model year (earned on 12/31/2019).
5/1/2019	2018	HDV	0.600	0.460	54,076	7,571	12/31/2018	12/31/2023	12/31/2023	
3/4/2019	2018	HDV	Transfer	-	-	(7,000)	12/31/2018	-	-	Sold 7,000 2018 HDV Evaporative Credits to Manufacturer B (earned on 12/31/2018).

LDV/LDT1 - Total 2018 Credits Remaining:	2,908	2018 Credits expire Dec 31, 2023; Debits must be paid off by Dec 31, 2021.
LDT2 - Total 2018 Credits Remaining:	0	
HLDV/MDPV - Total 2018 Credits Remaining:	0	
HDV - Total 2018 Credits Remaining:	571	

**2019 Credits:**

5/1/2020	2019	LDV/LDT1	0.300	#NAME?	79,840	#NAME?	12/31/2019	12/31/2024	12/31/2024	
5/1/2020	2019	LDT2	0.400	#NAME?	134,000	#NAME?	12/31/2019	12/31/2024	12/31/2024	
5/1/2020	2019	HLDV/MDPV	0.500	#NAME?	120,049	#NAME?	12/31/2019	12/31/2024	12/31/2024	
5/1/2020	2019	HLDV/MDPV	Transfer	-	-	(1,208)	12/31/2019	-	-	Transferred 1208 HLDV/MDPV 2019 Evaporative credits from 2019 to 2018 model year (earned on 12/31/2019).
5/1/2020	2019	HDV	0.600	#NAME?	116,000	#NAME?	12/31/2019	-	-	

LDV/LDT1 - Total 2019 Credits Remaining:	#NAME?	2019 Credits expire Dec 31, 2024; Debits must be paid off by Dec 31, 2022.
LDT2 - Total 2019 Credits Remaining:	#NAME?	
HLDV/MDPV - Total 2019 Credits Remaining:	#NAME?	
HDV - Total 2019 Credits Remaining:	#NAME?	

**Grand Totals:**

LDV/LDT1 - Grand Total 2017-2019 Credits Remaining:	#NAME?
LDT2 - Grand Total 2017-2019 Credits Remaining:	#NAME?
HLDV/MDPV - Grand Total 2017-2019 Credits Remaining:	#NAME?
HDV - Grand Total 2017-2019 Credits Remaining:	#NAME?