## APPENDIX E

## **Proposed Greenhouse Gas Parameters**

Number	Proposed Parameter	Description
1	Active 100 Hour Engine Fuel Consumption	Cumulative engine fuel consumption during recent operation (time < 100 hours).
2	Stored 100 Hour Engine Fuel Consumption	Most recent stored 100-hour cumulative fuel consumption for the engine.
3	Lifetime Engine Fuel Consumption	Total fuel consumption during the lifetime of the engine.
4	Active 100 Hour Engine Output Energy (EOE)	Cumulative engine output energy (EOE) during recent operation (time < 100 hours).
5	Stored 100 Hour Recent EOE	Most recent stored 100-hour cumulative EOE.
6	Lifetime EOE	Total EOE during the lifetime of the vehicle.
7	Active 100 Hour Engine Run Time	Cumulative engine run time during recent operation (time < 100 hours).
8	Active 100 Hour Idle Run Time (<= 1 mph)	Cumulative engine idle time while the engine is on during recent operation (time < 100 hours).
9	Stored 100 Hour Idle Run Time (<= 1 mph)	Most recent stored cumulative idle run time while the engine is on during 100 hours of engine operation.
10	Active 100 Hour Engine Idle Fuel Consumption (<= 1 mph)	Cumulative vehicle fuel consumption while the engine is idling during recent operation (time < 100 hours).
11	Stored 100 Hour Engine Idle Fuel Consumption (<= 1 mph)	Most recent stored 100-hour cumulative vehicle fuel consumption while the engine is idling.
12	Lifetime Engine Idle Fuel Consumption (<= 1 mph)	Total vehicle fuel consumption while the engine is idling during the lifetime of the vehicle.
13	Active 100 Hour Urban Speed Time (1 mph < X <= 40 mph)	Cumulative urban speed time while the engine is on during recent operation (time < 100 hours).
14	Stored 100 Hour Urban Speed Time (1 mph < X <= 40 mph)	Most recent stored cumulative urban speed time while the engine is on during 100 hours of engine operation.
15	Lifetime Urban Speed Time (1 mph < X <= 40 mph)	Total urban speed time while the engine is on during the lifetime of the vehicle.
16	Active 100 Hour Engine Power Takeoff (PTO) Active Time	Cumulative PTO active time during recent operation (time < 100 hours).
17	Stored 100 Hour Engine PTO Active Time	Most recent stored cumulative engine PTO active time during 100 hours of engine operation.
18	Active 100 Hour Engine PTO Fuel Consumption	Cumulative fuel consumption while PTO is activated during recent operation (time < 100 hours).
19	Stored 100 Hour Engine PTO Fuel Consumption	Most recent stored 100-hour cumulative engine PTO fuel consumption.
20	Lifetime Engine PTO Fuel Consumption	Total fuel consumption while PTO is activated during the lifetime of the vehicle.
21	Active 100 Hour Engine Waste Heat Recovery (WHR) Active Time	Cumulative engine WHR active time during recent operation (time < 100 hours).
22	Stored 100 Hour Engine WHR Active Time	Most recent stored cumulative WHR active time during 100 hours of engine operation.

23	Lifetime Engine WHR Active Time	Total engine WHR active time during the lifetime of the vehicle.
24	Active 100 Hour Engine WHR Distance Traveled	Cumulative distance traveled while engine WHR is active during recent operation (time < 100 hours).
25	Stored 100 Hour Engine WHR Distance Traveled	Most recent stored 100-hour cumulative distance traveled while engine WHR is active.
26	Lifetime Engine WHR Distance Traveled	Total distance traveled while engine WHR is active during the lifetime of the vehicle.
27	Active 100 Hour Engine WHR Energy Out	Cumulative engine WHR energy outputted during recent operation (time < 100 hours).
28	Stored 100 Hour Engine WHR Energy Out	Most recent stored 100-hour cumulative engine WHR energy outputted.
29	Lifetime Engine WHR Energy Out	Total engine WHR energy outputted during the lifetime of the vehicle.
30	Active 100 Hour Stop/Start Active Time	Cumulative stop/start active time during recent operation (time < 100 hours).
31	Stored 100 Hour Stop/Start Active Time	Most recent stored cumulative stop/start active time during 100 hours of engine operation.
32	Lifetime Stop/Start Active Time	Total stop/start active time during the lifetime of the vehicle.
33	Active 100 Hour Vehicle Fuel Consumption	Cumulative vehicle fuel consumption during recent operation (time < 100 hours).
34	Stored 100 Hour Vehicle Fuel Consumption	Most recent stored 100-hour cumulative fuel consumption for the vehicle.
35	Lifetime Vehicle Fuel Consumption	Total vehicle fuel consumption during the lifetime of the vehicle.
36	Active 100 Hour Distance Traveled	Cumulative distance traveled during recent operation (time < 100 hours).
37	Stored 100 Hour Distance Traveled	Most recent stored 100-hour cumulative distance traveled.
38	Lifetime Distance Traveled	Total distance traveled during the lifetime of the vehicle.
39	Active 100 Hour Positive Kinetic Energy (PKE)	Cumulative PKE during recent operation (time < 100 hours).
40	Stored 100 Hour Recent PKE	Most recent stored 100-hour cumulative PKE.
41	Lifetime PKE	Total PKE during the lifetime of the vehicle.
42	Active 100 Hour "Active Technology" Active Time	Cumulative "Active Technology" active time during recent operation (time < 100 hours).
43	Stored 100 Hour "Active Technology" Active Time	Most recent stored cumulative "Active Technology" active time during 100 hours of engine operation.
44	Lifetime "Active Technology" Active Time	Total "Active Technology" active time during the lifetime of the vehicle.
45	Active 100 Hour "Active Technology" Distance Traveled	Cumulative distance traveled while "Active Technology" is active during recent operation (time < 100 hours).
46	Stored 100 Hour "Active Technology" Distance Traveled	Most recent stored 100-hour cumulative distance traveled while "Active Technology" is active.
47	Lifetime "Active Technology" Distance Traveled	Total distance traveled while "Active Technology" is active during the lifetime of the vehicle.

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48	Active 100 Hour Automatic Engine	Cumulative number of time automatic engine
	Shutdown Count	shutdown is activated during recent operation
		(time < 100 hours).
49	Stored 100 Hour Automatic Engine	Most recent stored 100-hour cumulative
	Shutdown Count	automatic engine shutdown count.
50	Lifetime Automatic Engine Shutdown	Total number of time automatic engine
	Count	shutdown is activated during the lifetime of the
		vehicle.
51	Active 100 Hour Distance Traveled in	Cumulative distance traveled while in charge
01	Charge Depleting Operation with Engine	depleting operation with engine off during recent
	off	
		operation (time < 100 hours).
52	Stored 100 Hour Distance Traveled in	Most recent stored 100-hour cumulative
	Charge Depleting Operation with Engine	distance traveled while in charge depleting
	off	operation with engine off.
53	Lifetime Distance Traveled in Charge	Total distance traveled while in charge depleting
	Depleting Operation with Engine off	operation with engine off during the lifetime of
		the vehicle.
54	Active 100 Hour Distance Traveled in	Cumulative distance traveled while in charge
•	Charge Depleting Operation with Engine	depleting operation with engine running during
	Running	recent operation (time < 100 hours).
55	Stored 100 Hour Distance Traveled in	Most recent stored 100-hour cumulative
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	Charge Depleting Operation with Engine	distance traveled while in charge depleting
	Running	operation with engine running.
56	Lifetime Distance Traveled in Charge	Total distance traveled while in charge depleting
	Depleting Operation with Engine	operation with engine running during the lifetime
	Running	of the vehicle.
57	Active 100 Hour Distance Traveled in	Cumulative distance traveled while in driver-
	Driver-Selectable Charge Increasing	selectable charge increasing operation during
	Operation	recent operation (time < 100 hours).
58	Stored 100 Hour Distance Traveled in	Most recent stored 100-hour cumulative
00	Driver-Selectable Charge Increasing	distance traveled while in driver-selectable
	Operation Operation	charge increasing operation.
59	Lifetime Distance Traveled in Driver-	Total distance traveled while in driver-selectable
59		
	Selectable Charge Increasing Operation	charge increasing operation during the lifetime
		of the vehicle.
60	Active 100 Hour Fuel Consumed in	Cumulative fuel consumption during charge-
	Charge Depleting Operation	depleting operation during recent operation
		(time < 100 hours).
61	Stored 100 Hour Fuel Consumed in	Most recent stored 100-hour cumulative fuel
	Charge Depleting Operation	consumed during charge-depleting operation.
		3 3 1 3 1 3 3 1
62	Lifetime Fuel Consumed in Charge	Total fuel consumption during charge-depleting
	Depleting Operation	operation during the lifetime of the vehicle.
		•
63	Active 100 Hour Fuel Consumed in	Cumulative fuel consumption during driver-
	Driver-Selectable Charge Increasing	selectable charge increasing operation during
	Operation	recent operation (time < 100 hours).
		Most recent stored 100-hour cumulative fuel
64	I Stored 100 Hour Fuel Consumed in	
64	Stored 100 Hour Fuel Consumed in Driver-Selectable Charge Increasing	
64	Driver-Selectable Charge Increasing	consumed during charge-depleting operation.
	Driver-Selectable Charge Increasing Operation	consumed during charge-depleting operation.
65	Driver-Selectable Charge Increasing Operation Lifetime Fuel Consumed in Driver-	consumed during charge-depleting operation.  Total fuel consumption during driver-selectable
	Driver-Selectable Charge Increasing Operation	consumed during charge-depleting operation.  Total fuel consumption during driver-selectable charge increasing operation during the lifetime
	Driver-Selectable Charge Increasing Operation  Lifetime Fuel Consumed in Driver- Selectable Charge Increasing Operation	consumed during charge-depleting operation.  Total fuel consumption during driver-selectable charge increasing operation during the lifetime of the vehicle.
	Driver-Selectable Charge Increasing Operation Lifetime Fuel Consumed in Driver-	consumed during charge-depleting operation.  Total fuel consumption during driver-selectable charge increasing operation during the lifetime
65	Driver-Selectable Charge Increasing Operation  Lifetime Fuel Consumed in Driver- Selectable Charge Increasing Operation	consumed during charge-depleting operation.  Total fuel consumption during driver-selectable charge increasing operation during the lifetime of the vehicle.

67	Stored 100 Hour Grid Energy	Most recent stored 100-hour cumulative grid
	Consumed in Charge Depleting	energy consumed during charge depleting
	Operation with Engine off	operation with engine off.
68	Lifetime Grid Energy Consumed in	Total grid energy supplied by the battery pack in
	Charge Depleting Operation with Engine	charge depleting operation with engine off
	off	during the lifetime of the vehicle.
69	Active 100 Hour Grid Energy Consumed	Cumulative grid energy supplied by the battery
	in Charge Depleting Operation with	pack in charge depleting operation with engine
	Engine Running	running during recent operation (time < 100
70	Stored 100 Hour Crid Energy	hours).
70	Stored 100 Hour Grid Energy Consumed in Charge Depleting	Most recent stored 100-hour cumulative grid energy consumed during charge depleting
71	Operation with Engine Running Lifetime Grid Energy Consumed in	operation with engine running.  Total grid energy supplied by the battery pack in
' '	Charge Depleting Operation with Engine	charge depleting operation with engine running
	Running	during the lifetime of the vehicle.
72	Active 100 Hour Grid Energy into the	Cumulative grid energy into the battery during
12	Battery	recent operation (time < 100 hours).
	Dationy	recent operation (time a recentary).
73	Stored 100 Hour Grid Energy into the	Most recent stored 100-hour cumulative grid
	Battery	energy into the Battery.
74	Lifetime Grid Energy into the Battery	Total grid energy into the battery during the
		lifetime of the vehicle.
75	Active 100 Hour Propulsion System	Cumulative propulsion system active time
70	Active Time	during recent operation (time < 100 hours).
76	Stored 100 Hour Recent Propulsion	Most recent stored cumulative propulsion
	System Active Time	system active time during 100 hours of engine
77	Lifetime Prepulsion System Active Time	operation.
''	Lifetime Propulsion System Active Time	Total propulsion system active time during the lifetime of the vehicle.
78	Active 100 Hour Idle Propulsion System	Cumulative idle propulsion system active time
10	Active Time (<= 1 mph)	during recent operation (time < 100 hours).
79	Stored 100 Hour idle Propulsion System	Most recent stored cumulative idle propulsion
'3	Active Time (<= 1 mph)	system active time during 100 hours of engine
	Active Time (4- 1 mpm)	operation.
80	Lifetime Idle Propulsion System Active	Total idle propulsion system active time during
	Time (<= 1 mph)	the lifetime of the vehicle.
81	Active 100 Hour Urban Propulsion	Cumulative urban propulsion system active time
	System Active Time (1 mph < X <= 40	during recent operation (time < 100 hours).
	mph)	, , ,
82	Stored 100 Hour Urban Propulsion	Most recent stored cumulative urban propulsion
	System Active Time (1 mph < X <= 40	system active time during 100 hours of engine
	mph)	operation.
83	Lifetime Urban Propulsion System	Total urban propulsion system active time
	Active Time (1 mph < X <= 40 mph)	during the lifetime of the vehicle.