2023 EXISTING BASIC INSPECTION AND MAINTENANCE PERFORMANCE STANDARD MODELING TECHNICAL SUPPORT DOCUMENT:

February 2023
Utah Division of Air Quality
Inventory Section/Mobile Sources

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i. Overview:

The purpose of this document is to explain how the existing I/M programs of Davis, Salt Lake, and Weber counties are meeting the applicable performance standard for a Basic I/M Program. The following guidance was applied for this analysis:

- Performance Standard Modeling for New and Existing Vehicle Inspection and Maintenance (I/M) Programs Using the MOVES Mobile Source Emissions Model (EPA-420-B-22-034 Oct 2022);
- Appendix A Provides the MOVES coding for the existing I/M programs for Davis, Salt Lake, Utah, and Weber Counties; and
- Appendix D is the Basic I/M program provided by guidance.

2023 was chosen as an analysis year as it is the attainment year for the Moderate Northern Wasatch Front, UT Ozone Nonattainment Area. This evaluation used the same MOVES3 modeling assumptions to develop the on-road mobile source 2023 projection inventory for the Northern Wasatch Front, UT Ozone Nonattainment Area (NA) covering Davis, Salt Lake, and Weber Counties. The local planning inputs used meet Environmental Protection Agency (EPA) and Department of Transportation guidance on updating local planning assumptions every 5 years (EPA-420-B-08-901 Dec 2008). Utah County is not required to perform a Basic test. However, Utah County provides reciprocity testing and there are a number of Utah County registered vehicles that travel into the Northern Wasatch Front so the analysis has been included.

The performance standard compares the modeling results of the existing program and performance standard benchmark for a Basic program for 2023. For a Basic I/M program, if the proposed or existing program achieves the same or lower emissions levels for NO_x and VOC as the performance standard benchmark program, then the proposed or existing program is considered to have met the Basic performance standard. Emissions credits that have been built into the program include NO_x, VOC, and CO (Carbon Monoxide is not required for this test but the testing procedures have been included). Areas required to operate an I/M program as the result of being classified (or reclassified) as Moderate for an 8-hour ozone NAAQS must use the Basic performance standard, using the program design elements at 40 CFR 51.352(e). Emission estimates are confined to the EPA-approved MOVES 3.0.3 (Motor Vehicle Emission Simulator). This model produces emissions daily estimates for on-road vehicles by providing emissions profiles for starts, exhaust, evaporative, and hot soak conditions. Inputs include:

- Speeds;
- Vehicle fuel profiles and specifications;
- Vehicle miles traveled (VMT);
- Inspection and maintenance program (I/M) profiles;
- VMT mix;
- Vehicle age distributions; and
- Meteorological conditions.

Compliance factors were compiled utilizing local 2017 I/M EPA data covering:

- Total Vehicles Tested;
- Total Failures;
- Waivers; and
- Failure Rate for the Two Speed Idle, On-Board Diagnostics (OBD), and Gas Cap testing procedures.

The compliance data is from EPA prepared compliance data dated 2/21/2019. Since this modeling exercise has been completed, 2020 I/M testing compliance factors have become available (EPA prepared compliance data dated 8/12/2021). The only difference between the 2017 I/M and 2020 I/M compliance factors is in Weber County, light duty trucks model years 1996-2007, with the difference being 1% (2017 95% vs 2020 96% page 14 below).

County specific MOVES 3.0.3 I/M program details are included below. Following the MOVES3 I/M program descriptions are the Performance Standard Modeling results. **ii. Davis County I/M modeling inputs**:

Basic I/M Program

Covers light duty vehicles registered in Davis County
MOVES source types (21) passenger car, (31) light duty truck (32) light commercial truck

Annual Testing

Two Speed Idle Program (MOVES test standard 12)
Model Years 1968-1995
Gas Cap (MOVES test standard 41)
Model Years 1990-1995
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 200,378 + Waivers 83 = 200,461) /Total Subject Vehicles 203,570 = 0.9847276
Waiver Rate = Waivers 83/ Initially Failed Vehicles 18,924 = 0.0044
Failure Rate = Total TSI Failures 637/16,121 Total Tested Vehicles = 0.0395

Compliance Factor = 98% (rounded) for Passenger Vehicles
Compliance Factor = 98% (rounded) for Light Duty Trucks
Compliance Factor = 98% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43, 51)

Model Years 1996-2017
Gas Cap (MOVES test standard 45)
Model Years 1996-2001
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 200,378 + Waivers 83 = 200,461) /Total Subject Vehicles 203,570 = 0.9847276
Waiver Rate = Waivers 83/ Initially Failed Vehicles 18,924 = 0.0044
Failure Rate = Total OBD Failures 3,192/187,449 Total Tested Vehicles = 0.0017

Compliance Factor = 98% (rounded) for Passenger Vehicles

OBD Program (MOVES test standard 43,51)
Model Years 1996-2007
Gas Cap (MOVES test standard 45)
Model Years 1996-2001
Light Duty Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 96.12%
Light Commercial Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 75.26%
Compliance Rate = (Total Compliant Vehicles 200,378 + Waivers 83 = 200,461) /Total Subject Vehicles 203,570 = 0.9847276
Waiver Rate = Waivers 83/ Initially Failed Vehicles 18,924 = 0.0044
Failure Rate = Total OBD Failures 3,192/187,449 Total Tested Vehicles = 0.0017
Compliance Factor = 95% (rounded) for Light Duty Trucks
Compliance Factor = 74% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 2008-2017
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 200,378 + Waivers 83 = 200,461) /Total Subject Vehicles 203,570 = 0.9847276
Waiver Rate = Waivers 83/ Initially Failed Vehicles 18,924 = 0.0044
Failure Rate = Total OBD Failures 3,192/187,449 Total Tested Vehicles = 0.0017

Compliance Factor = 98% (rounded) for Light Duty Trucks
Compliance Factor = 98% (rounded) for Light Commercial Trucks

Biennial Testing

OBD Program (MOVES test standard 43,51)

Model Years 2018-2021

Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%

Light Duty Trucks up to 14,500 (GVWR): Regulatory Class Coverage of 100%

Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 200,378 + Waivers 83 = 200,461) /Total Subject Vehicles 203,570 = 0.9847276

Waiver Rate = Waivers 83/ Initially Failed Vehicles 18,924 = 0.0044

Failure Rate = Total OBD Failures 3,192/187,449 Total Tested Vehicles = 0.0017

Compliance Factor = 98% (rounded) for Passenger Vehicles

Compliance Factor = 98% (rounded) for Light Duty Trucks

Compliance Factor = 98% (rounded) for Light Commercial Trucks

iii. Salt Lake County I/M modeling inputs:

Basic I/M Program

Covers light duty vehicles registered in Salt Lake County
MOVES source types (21) passenger car, (31) light duty truck (32) light commercial truck

Annual Testing

Two Speed Idle Program (MOVES test standard 12) + Gas Cap (MOVES test standard 41)
Model Years 1968-1995
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455
Failure Rate = Total TSI Failures 386/64,030 Total Tested Vehicles = 0.006

Compliance Factor = 100% (rounded) for Passenger Vehicles
Compliance Factor = 100% (rounded) for Light Duty Trucks
Compliance Factor = 100% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 1996-2017
Gas Cap (MOVES test standard 45)
Model Years 1996-2001
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455
Failure Rate = Total OBD Failures 2,790/635,469 Total Tested Vehicles = 0.0044

Compliance Factor = 100% (rounded) for Passenger Vehicles

OBD Program (MOVES test standard 43,51)
Model Years 1996-2007
Gas Cap (MOVES test standard 45)

Model Years 1996-2001
Light Duty Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 96.12%
Light Commercial Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 75.26%

Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455
Failure Rate = Total OBD Failures 2,790/635,469 Total Tested Vehicles = 0.0044

Compliance Factor = 96% (rounded) for Light Duty Trucks
Compliance Factor = 75% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 2008-2017
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate Calculation
OBD and TSI Vehicles
Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455
Failure Rate = Total OBD Failures 2,790/635,469 Total Tested Vehicles = 0.0044

Compliance Factor = 100% (rounded) for Light Duty Trucks
Compliance Factor = 100% (rounded) for Light Commercial Trucks

Biennial Testing

OBD Program (MOVES test standard 43,51)
Model Years 2018-2021
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,500 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate Calculation
OBD and TSI Vehicles

Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455
Failure Rate = Total OBD Failures 2,790/635,469 Total Tested Vehicles = 0.0044

Compliance Factor = 100% (rounded) for Passenger Vehicles
Compliance Factor = 100% (rounded) for Light Duty Trucks
Compliance Factor = 100% (rounded) for Light Commercial Trucks

iv. Utah County I/M modeling inputs:

Basic I/M Program

Covers light duty vehicles registered in Utah County
MOVES source types (21) passenger car, (31) light duty truck (32) light commercial truck

Annual Testing

Two Speed Idle Program (MOVES test standard 12)
Model Years 1968-1995
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 286,657 + Waivers 208 = 286,865/Total Subject Vehicles 290,111) = 0.98881
Waiver Rate = Waivers 208 / Initially Failed Vehicles 12,816 = 0.0162
Failure Rate = Total TSI Failures 785/16,825 Total Tested Vehicles = 0.0127

Compliance Factor = 99% (rounded) for Passenger Vehicles
Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 1996-2017
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 286,657 + Waivers 208 = 286,865/Total Subject Vehicles 290,111) = 0.98881
Waiver Rate = Waivers 208 / Initially Failed Vehicles 12,816 = 0.0162
Failure Rate = Total OBD Failures 3,454/273,286 Total Tested Vehicles = 0.0126

Compliance Factor = 99% for Passenger Vehicles

OBD Program (MOVES test standard 43,51)
Model Years 1996-2007
Light Duty Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 96.12%
Light Commercial Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 75.26%

Compliance Rate = (Total Compliant Vehicles 286,657 + Waivers 208 = 286,865/Total Subject Vehicles 290,111) = 0.98881
Waiver Rate = Waivers 208 / Initially Failed Vehicles 12,816 = 0.0162
Failure Rate = Total OBD Failures 3,454/273,286 Total Tested Vehicles = 0.0126

Compliance Factor = 95% (rounded) for Light Duty Trucks
Compliance Factor = 74% (rounded) (75% was used accidently by MAG and for this analysis) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 2008-2017
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 286,657 + Waivers 208 = 286,865/Total Subject Vehicles 290,111) = 0.98881
Waiver Rate = Waivers 208 / Initially Failed Vehicles 12,816 = 0.0162
Failure Rate = Total OBD Failures 3,454/273,286 Total Tested Vehicles = 0.0126

Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

Biennial Testing

OBD Program (MOVES test standard 43,51)
Model Years 2018-2021
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,500 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 286,657 + Waivers 208 = 286,865/Total Subject Vehicles 290,111) = 0.98881
Waiver Rate = Waivers 208 / Initially Failed Vehicles 12,816 = 0.0162
Failure Rate = Total OBD Failures 3,454/273,286 Total Tested Vehicles = 0.0126

Compliance Factor = 99% (rounded) for Passenger Vehicles
Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

v. Weber County I/M modeling inputs:

Basic I/M Program

Covers light duty vehicles registered in Weber County
MOVES source types (21) passenger car, (31) light duty truck (32) light commercial truck

Annual Testing

Two Speed Idle Program (MOVES test standard 12) + Gas Cap (MOVES test standard 41)
Model Years 1968-1995
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 147,117 + Waivers 2 = 147,119) /Total Subject Vehicles 148,389 = 0.991427
Waiver Rate = Waivers 2/ Initially Failed Vehicles 7,775 = 0.0003
Failure Rate = Total TSI Failures 208/16,330 Total Tested Vehicles = 0.0127

Compliance Factor = 99% (rounded) for Passenger Vehicles
Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 1996-2017
Gas Cap (MOVES test standard 45)
Model Years 1996-2001
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 147,117 + Waivers 2 = 147,119) /Total Subject Vehicles 148,389 = 0.991427
Waiver Rate = Waivers 2/ Initially Failed Vehicles 7,775 = 0.0003
Failure Rate = Total OBD Failures 1,274/132,059 Total Tested Vehicles = 0.0096

Compliance Factor = 99% (rounded) for Passenger Vehicles

OBD Program (MOVES test standard 43,51)
Model Years 1996-2007
Gas Cap (MOVES test standard 45)
Model Years 1996-2001
Light Duty Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 96.12%

Light Commercial Trucks up to 8,500 (GVWR): Regulatory Class Coverage of 75.26%

Compliance Rate = (Total Compliant Vehicles 147,117 + Waivers 2 = 147,119) /Total Subject Vehicles 148,389 = 0.991427
Waiver Rate = Waivers 2/ Initially Failed Vehicles 7,775 = 0.0003
Failure Rate = Total OBD Failures 1,274/132,059 Total Tested Vehicles = 0.0096

Compliance Factor = 95% (rounded) for Light Duty Trucks (2020 96%)
Compliance Factor = 75% (rounded) for Light Commercial Trucks

OBD Program (MOVES test standard 43,51)
Model Years 2008-2017
Light Duty Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate = (Total Compliant Vehicles 147,117 + Waivers 2 = 147,119) /Total Subject Vehicles 148,389 = 0.991427
Waiver Rate = Waivers 2/ Initially Failed Vehicles 7,775 = 0.0003
Failure Rate = Total OBD Failures 1,274/132,059 Total Tested Vehicles = 0.0096

Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

Biennial Testing

OBD Program (MOVES test standard 43,51)
Model Years 2018-2021
Passenger Cars up to 8,500 (GVWR): Regulatory Class Coverage of 100%
Light Duty Trucks up to 14,500 (GVWR): Regulatory Class Coverage of 100%
Light Commercial Trucks up to 14,000 (GVWR): Regulatory Class Coverage of 100%

Compliance Rate Calculation
OBD and TSI Vehicles
Compliance Rate = (Total Compliant Vehicles 696,709 + Waivers 117 = 696,826) /Total Subject Vehicles 699,499 = 0.996
Waiver Rate = Waivers 117/ Initially Failed Vehicles 25,704 = 0.00455

Failure Rate = Total OBD Failures 2,790/635,469 Total Tested Vehicles = 0.0044

Compliance Factor = 99% (rounded) for Passenger Vehicles
Compliance Factor = 99% (rounded) for Light Duty Trucks
Compliance Factor = 99% (rounded) for Light Commercial Trucks

v. Performance Standing modeling results:

The performance standard compares the modeling results of the existing program and performance standard benchmark for a Basic program for 2023. For a Basic I/M program, if the proposed or existing program achieves the same or lower emissions levels for VOC and NOx as the performance standard benchmark program, then the proposed or existing program is considered to have met the Basic performance standard. Davis, Salt Lake, Utah, and Weber counties I/M programs achieve lower emissions levels for VOC and NOx as the Basic Performance Standard.

2023 Davis County Summer Basic Performance Modeling (Tons Per Day)		
	NOx	VOC
Davis I/M	7.42	2.77
Basic I/M	7.55	2.91
Difference	0.14	0.13

2023 Salt Lake Summer Basic Performance Modeling (Tons Per Day)		
	NOx	VOC
Salt Lake I/M	20.98	8.51
Basic I/M	21.42	8.94
Difference	0.44	0.43

2023 Utah County Summer Basic Performance Modeling (Tons Per Day)		
	NOx	VOC
Utah I/M	10.39	3.37
Basic I/M	10.56	3.48
Difference	0.16	0.12

2023 Weber County Summer Basic Performance Modeling (Tons Per Day)		
	NOx	VOC
Weber I/M	5.87	2.12
Basic I/M	5.97	2.22
Difference	0.11	0.10

Appendix A

MOVES 2023 Davis I/M Program												
polProcessID	stateID	countyID	yearID	sourceTypeID	fuelTypeID	IMProgramID	begModelYearID	endModelYearID	inspectFreq	test StandardsID	useIMyn	compliance Factor
112	49	49011	2023	21	1	16	2018	2021	2	43	Y	98
113	49	49011	2023	21	1	16	2018	2021	2	43	Y	98
302	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
301	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
202	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
201	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
102	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
101	49	49011	2023	21	5	19	2018	2021	2	51	Y	98
302	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
301	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
202	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
201	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
102	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
101	49	49011	2023	21	5	13	1996	2017	1	51	Y	98
113	49	49011	2023	21	5	10	1996	2001	1	45	Y	98
112	49	49011	2023	21	5	10	1996	2001	1	45	Y	98
113	49	49011	2023	21	5	7	2002	2017	1	43	Y	98
112	49	49011	2023	21	5	7	2002	2017	1	43	Y	98
113	49	49011	2023	21	5	4	1990	1995	1	41	Y	98
112	49	49011	2023	21	5	4	1990	1995	1	41	Y	98
302	49	49011	2023	21	5	1	1968	1995	1	12	Y	98
301	49	49011	2023	21	5	1	1968	1995	1	12	Y	98
202	49	49011	2023	21	5	1	1968	1995	1	12	Y	98
201	49	49011	2023	21	5	1	1968	1995	1	12	Y	98
102	49	49011	2023	21	5	1	1968	1995	1	12	Y	98
101	49	49011	2023	21	5	1	1968	1995	1	12	Y	98

112	49	49011	2023	21	5	16	2018	2021	2	43	Y	98
113	49	49011	2023	21	5	16	2018	2021	2	43	Y	98
302	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
301	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
202	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
201	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
102	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
101	49	49011	2023	21	1	19	2018	2021	2	51	Y	98
302	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
301	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
202	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
201	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
102	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
101	49	49011	2023	21	1	13	1996	2017	1	51	Y	98
113	49	49011	2023	21	1	10	1996	2001	1	45	Y	98
112	49	49011	2023	21	1	10	1996	2001	1	45	Y	98
113	49	49011	2023	21	1	7	2002	2017	1	43	Y	98
112	49	49011	2023	21	1	7	2002	2017	1	43	Y	98
113	49	49011	2023	21	1	4	1990	1995	1	41	Y	98
112	49	49011	2023	21	1	4	1990	1995	1	41	Y	98
302	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
301	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
202	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
201	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
102	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
101	49	49011	2023	21	1	1	1968	1995	1	12	Y	98
302	49	49011	2023	31	5	62	2018	2021	2	51	Y	98
301	49	49011	2023	31	5	62	2018	2021	2	51	Y	98
202	49	49011	2023	31	5	62	2018	2021	2	51	Y	98
201	49	49011	2023	31	5	62	2018	2021	2	51	Y	98
102	49	49011	2023	31	5	62	2018	2021	2	51	Y	98

101	49	49011	2023	31	5	62	2018	2021	2	51	Y	98
113	49	49011	2023	31	5	59	2018	2021	2	43	Y	98
112	49	49011	2023	31	5	59	2018	2021	2	43	Y	98
113	49	49011	2023	31	5	56	2008	2017	1	43	Y	98
112	49	49011	2023	31	5	56	2008	2017	1	43	Y	98
302	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
301	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
202	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
201	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
102	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
101	49	49011	2023	31	5	53	2008	2017	1	51	Y	98
113	49	49011	2023	31	5	5	1990	1995	1	41	Y	98
112	49	49011	2023	31	5	5	1990	1995	1	41	Y	98
302	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
301	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
202	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
201	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
102	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
101	49	49011	2023	31	5	2	1968	1995	1	12	Y	98
302	49	49011	2023	31	5	14	1996	2007	1	51	Y	95
301	49	49011	2023	31	5	14	1996	2007	1	51	Y	95
202	49	49011	2023	31	5	14	1996	2007	1	51	Y	95
201	49	49011	2023	31	5	14	1996	2007	1	51	Y	95
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112	49	49011	2023	32	1	12	1996	2001	1	45	Y	74
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112	49	49011	2023	32	1	9	2002	2007	1	43	Y	74

Appendix B

MOVES 2023 Salt Lake I/M Program												
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102	49	49035	2023	32	5	54	2008	2017	1	51	Y	100
201	49	49035	2023	32	5	54	2008	2017	1	51	Y	100
202	49	49035	2023	32	5	54	2008	2017	1	51	Y	100
301	49	49035	2023	32	5	54	2008	2017	1	51	Y	100
302	49	49035	2023	32	5	54	2008	2017	1	51	Y	100
112	49	49035	2023	32	5	57	2008	2017	1	43	Y	100
113	49	49035	2023	32	5	57	2008	2017	1	43	Y	100
112	49	49035	2023	32	5	60	2018	2021	2	43	Y	100
113	49	49035	2023	32	5	60	2018	2021	2	43	Y	100
101	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
102	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
201	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
202	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
301	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
302	49	49035	2023	32	5	63	2018	2021	2	51	Y	100
101	49	49035	2023	32	5	3	1968	1995	1	12	Y	100
102	49	49035	2023	32	5	3	1968	1995	1	12	Y	100

201	49	49035	2023	32	5	3	1968	1995	1	12	Y	100
202	49	49035	2023	32	5	3	1968	1995	1	12	Y	100
301	49	49035	2023	32	5	3	1968	1995	1	12	Y	100
302	49	49035	2023	32	5	3	1968	1995	1	12	Y	100
112	49	49035	2023	32	5	6	1968	1995	1	41	Y	100
113	49	49035	2023	32	5	6	1968	1995	1	41	Y	100

Appendix C

2023 Utah I/M												
polProcessID	stateID	countyID	yearID	sourceTypeID	fuelTypeID	IMProgramID	begModelYearID	endModelYearID	inspectFreq	test StandardsID	useIMyn	compliance Factor
101	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
102	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
201	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
202	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
301	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
302	49	49049	2023	21	1	1	1968	1995	1	12	Y	99
112	49	49049	2023	21	1	7	2002	2017	1	43	Y	99
113	49	49049	2023	21	1	7	2002	2017	1	43	Y	99
112	49	49049	2023	21	1	10	1996	2001	1	43	Y	99
113	49	49049	2023	21	1	10	1996	2001	1	43	Y	99
101	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
102	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
201	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
202	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
301	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
302	49	49049	2023	21	1	13	1996	2017	1	51	Y	99
101	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
102	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
201	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
202	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
301	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
302	49	49049	2023	21	1	19	2018	2021	2	51	Y	99
113	49	49049	2023	21	5	16	2018	2021	2	43	Y	99
112	49	49049	2023	21	5	16	2018	2021	2	43	Y	99
101	49	49049	2023	21	5	1	1968	1995	1	12	Y	99
102	49	49049	2023	21	5	1	1968	1995	1	12	Y	99
201	49	49049	2023	21	5	1	1968	1995	1	12	Y	99

202	49	49049	2023	21	5	1	1968	1995	1	12	Y	99
301	49	49049	2023	21	5	1	1968	1995	1	12	Y	99
302	49	49049	2023	21	5	1	1968	1995	1	12	Y	99
112	49	49049	2023	21	5	7	2002	2017	1	43	Y	99
113	49	49049	2023	21	5	7	2002	2017	1	43	Y	99
112	49	49049	2023	21	5	10	1996	2001	1	43	Y	99
113	49	49049	2023	21	5	10	1996	2001	1	43	Y	99
101	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
102	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
201	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
202	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
301	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
302	49	49049	2023	21	5	13	1996	2017	1	51	Y	99
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102	49	49049	2023	21	5	19	2018	2021	2	51	Y	99
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202	49	49049	2023	21	5	19	2018	2021	2	51	Y	99
301	49	49049	2023	21	5	19	2018	2021	2	51	Y	99
302	49	49049	2023	21	5	19	2018	2021	2	51	Y	99
113	49	49049	2023	21	1	16	2018	2021	2	43	Y	99
112	49	49049	2023	21	1	16	2018	2021	2	43	Y	99
112	49	49049	2023	31	1	8	2002	2007	1	43	Y	95
113	49	49049	2023	31	1	8	2002	2007	1	43	Y	95
112	49	49049	2023	31	1	11	1996	2001	1	43	Y	95
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202	49	49049	2023	31	1	14	1996	2007	1	51	Y	95
301	49	49049	2023	31	1	14	1996	2007	1	51	Y	95
302	49	49049	2023	31	1	14	1996	2007	1	51	Y	95

101	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
102	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
201	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
202	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
301	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
302	49	49049	2023	31	1	2	1968	1995	1	12	Y	99
101	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
102	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
201	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
202	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
301	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
302	49	49049	2023	31	1	53	2008	2017	1	51	Y	99
112	49	49049	2023	31	1	56	2008	2017	1	43	Y	99
113	49	49049	2023	31	1	56	2008	2017	1	43	Y	99
112	49	49049	2023	31	1	59	2018	2021	2	43	Y	99
113	49	49049	2023	31	1	59	2018	2021	2	43	Y	99
101	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
102	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
201	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
202	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
301	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
302	49	49049	2023	31	1	62	2018	2021	2	51	Y	99
112	49	49049	2023	31	5	8	2002	2007	1	43	Y	95
113	49	49049	2023	31	5	8	2002	2007	1	43	Y	95
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102	49	49049	2023	31	5	14	1996	2007	1	51	Y	95
201	49	49049	2023	31	5	14	1996	2007	1	51	Y	95
202	49	49049	2023	31	5	14	1996	2007	1	51	Y	95
301	49	49049	2023	31	5	14	1996	2007	1	51	Y	95

302	49	49049	2023	31	5	14	1996	2007	1	51	Y	95
101	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
102	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
201	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
202	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
301	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
302	49	49049	2023	31	5	2	1968	1995	1	12	Y	99
101	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
102	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
201	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
202	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
301	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
302	49	49049	2023	31	5	53	2008	2017	1	51	Y	99
112	49	49049	2023	31	5	56	2008	2017	1	43	Y	99
113	49	49049	2023	31	5	56	2008	2017	1	43	Y	99
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101	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
102	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
201	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
202	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
301	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
302	49	49049	2023	31	5	62	2018	2021	2	51	Y	99
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113	49	49049	2023	32	1	9	2002	2007	1	43	Y	75
112	49	49049	2023	32	1	12	1996	2001	1	43	Y	75
113	49	49049	2023	32	1	12	1996	2001	1	43	Y	75
101	49	49049	2023	32	1	15	1996	2007	1	51	Y	75
102	49	49049	2023	32	1	15	1996	2007	1	51	Y	75
201	49	49049	2023	32	1	15	1996	2007	1	51	Y	75
202	49	49049	2023	32	1	15	1996	2007	1	51	Y	75

301	49	49049	2023	32	1	15	1996	2007	1	51	Y	75
302	49	49049	2023	32	1	15	1996	2007	1	51	Y	75
101	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
102	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
201	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
202	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
301	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
302	49	49049	2023	32	1	54	2008	2017	1	51	Y	99
112	49	49049	2023	32	1	57	2008	2017	1	43	Y	99
113	49	49049	2023	32	1	57	2008	2017	1	43	Y	99
112	49	49049	2023	32	1	60	2018	2021	2	43	Y	99
113	49	49049	2023	32	1	60	2018	2021	2	43	Y	99
101	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
102	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
201	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
202	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
301	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
302	49	49049	2023	32	1	63	2018	2021	2	51	Y	99
101	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
102	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
201	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
202	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
301	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
302	49	49049	2023	32	1	3	1968	1995	1	12	Y	99
112	49	49049	2023	32	5	9	2002	2007	1	43	Y	75
113	49	49049	2023	32	5	9	2002	2007	1	43	Y	75
112	49	49049	2023	32	5	12	1996	2001	1	43	Y	75
113	49	49049	2023	32	5	12	1996	2001	1	43	Y	75
101	49	49049	2023	32	5	15	1996	2007	1	51	Y	75
102	49	49049	2023	32	5	15	1996	2007	1	51	Y	75
201	49	49049	2023	32	5	15	1996	2007	1	51	Y	75

202	49	49049	2023	32	5	15	1996	2007	1	51	Y	75
301	49	49049	2023	32	5	15	1996	2007	1	51	Y	75
302	49	49049	2023	32	5	15	1996	2007	1	51	Y	75
101	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
102	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
201	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
202	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
301	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
302	49	49049	2023	32	5	54	2008	2017	1	51	Y	99
112	49	49049	2023	32	5	57	2008	2017	1	43	Y	99
113	49	49049	2023	32	5	57	2008	2017	1	43	Y	99
112	49	49049	2023	32	5	60	2018	2021	2	43	Y	99
113	49	49049	2023	32	5	60	2018	2021	2	43	Y	99
101	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
102	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
201	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
202	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
301	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
302	49	49049	2023	32	5	63	2018	2021	2	51	Y	99
101	49	49049	2023	32	5	3	1968	1995	1	12	Y	99
102	49	49049	2023	32	5	3	1968	1995	1	12	Y	99
201	49	49049	2023	32	5	3	1968	1995	1	12	Y	99
202	49	49049	2023	32	5	3	1968	1995	1	12	Y	99
301	49	49049	2023	32	5	3	1968	1995	1	12	Y	99
302	49	49049	2023	32	5	3	1968	1995	1	12	Y	99

Appendix D

MOVES 2023 Weber I/M Program												
polProcessID	stateID	countyID	yearID	sourceTypeID	fuelTypeID	IMProgramID	begModelYearID	endModelYearID	inspectFreq	test StandardsID	useIMyn	compliance Factor
112	49	49057	2023	32	1	9	2002	2007	1	43	Y	75
113	49	49057	2023	32	1	9	2002	2007	1	43	Y	75
112	49	49057	2023	32	1	12	1996	2001	1	45	Y	75
113	49	49057	2023	32	1	12	1996	2001	1	45	Y	75
101	49	49057	2023	32	1	15	1996	2007	1	51	Y	75
102	49	49057	2023	32	1	15	1996	2007	1	51	Y	75
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302	49	49057	2023	32	1	15	1996	2007	1	51	Y	75
101	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
102	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
201	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
202	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
301	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
302	49	49057	2023	32	1	54	2008	2017	1	51	Y	99
112	49	49057	2023	32	1	57	2008	2017	1	43	Y	99
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101	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
102	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
201	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
202	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
301	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
302	49	49057	2023	32	1	63	2018	2021	2	51	Y	99
101	49	49057	2023	32	1	3	1968	1995	1	12	Y	99

102	49	49057	2023	32	1	3	1968	1995	1	12	Y	99
201	49	49057	2023	32	1	3	1968	1995	1	12	Y	99
202	49	49057	2023	32	1	3	1968	1995	1	12	Y	99
301	49	49057	2023	32	1	3	1968	1995	1	12	Y	99
302	49	49057	2023	32	1	3	1968	1995	1	12	Y	99
112	49	49057	2023	32	1	6	1968	1995	1	41	Y	99
113	49	49057	2023	32	1	6	1968	1995	1	41	Y	99
112	49	49057	2023	32	5	9	2002	2007	1	43	Y	75
113	49	49057	2023	32	5	9	2002	2007	1	43	Y	75
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101	49	49057	2023	32	5	15	1996	2007	1	51	Y	75
102	49	49057	2023	32	5	15	1996	2007	1	51	Y	75
201	49	49057	2023	32	5	15	1996	2007	1	51	Y	75
202	49	49057	2023	32	5	15	1996	2007	1	51	Y	75
301	49	49057	2023	32	5	15	1996	2007	1	51	Y	75
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301	49	49057	2023	32	5	54	2008	2017	1	51	Y	99
302	49	49057	2023	32	5	54	2008	2017	1	51	Y	99
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101	49	49057	2023	32	5	63	2018	2021	2	51	Y	99
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201	49	49057	2023	32	5	63	2018	2021	2	51	Y	99
202	49	49057	2023	32	5	63	2018	2021	2	51	Y	99

301	49	49057	2023	32	5	63	2018	2021	2	51	Y	99
302	49	49057	2023	32	5	63	2018	2021	2	51	Y	99
101	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
102	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
201	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
202	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
301	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
302	49	49057	2023	32	5	3	1968	1995	1	12	Y	99
112	49	49057	2023	32	5	6	1968	1995	1	41	Y	99
113	49	49057	2023	32	5	6	1968	1995	1	41	Y	99
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113	49	49057	2023	31	1	8	2002	2007	1	43	Y	95
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113	49	49057	2023	31	1	11	1996	2001	1	45	Y	95
101	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
102	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
201	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
202	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
301	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
302	49	49057	2023	31	1	14	1996	2007	1	51	Y	95
101	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
102	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
201	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
202	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
301	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
302	49	49057	2023	31	1	2	1968	1995	1	12	Y	99
112	49	49057	2023	31	1	5	1968	1995	1	41	Y	99
113	49	49057	2023	31	1	5	1968	1995	1	41	Y	99
101	49	49057	2023	31	1	53	2008	2017	1	51	Y	99
102	49	49057	2023	31	1	53	2008	2017	1	51	Y	99
201	49	49057	2023	31	1	53	2008	2017	1	51	Y	99

202	49	49057	2023	31	1	53	2008	2017	1	51	Y	99
301	49	49057	2023	31	1	53	2008	2017	1	51	Y	99
302	49	49057	2023	31	1	53	2008	2017	1	51	Y	99
112	49	49057	2023	31	1	56	2008	2017	1	43	Y	99
113	49	49057	2023	31	1	56	2008	2017	1	43	Y	99
112	49	49057	2023	31	1	59	2018	2021	2	43	Y	99
113	49	49057	2023	31	1	59	2018	2021	2	43	Y	99
101	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
102	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
201	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
202	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
301	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
302	49	49057	2023	31	1	62	2018	2021	2	51	Y	99
112	49	49057	2023	31	5	8	2002	2007	1	43	Y	95
113	49	49057	2023	31	5	8	2002	2007	1	43	Y	95
112	49	49057	2023	31	5	11	1996	2001	1	45	Y	95
113	49	49057	2023	31	5	11	1996	2001	1	45	Y	95
101	49	49057	2023	31	5	14	1996	2007	1	51	Y	95
102	49	49057	2023	31	5	14	1996	2007	1	51	Y	95
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301	49	49057	2023	31	5	14	1996	2007	1	51	Y	95
302	49	49057	2023	31	5	14	1996	2007	1	51	Y	95
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113	49	49057	2023	31	5	5	1968	1995	1	41	Y	99

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102	49	49057	2023	31	5	53	2008	2017	1	51	Y	99
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202	49	49057	2023	31	5	53	2008	2017	1	51	Y	99
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302	49	49057	2023	31	5	53	2008	2017	1	51	Y	99
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113	49	49057	2023	31	5	56	2008	2017	1	43	Y	99
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113	49	49057	2023	31	5	59	2018	2021	2	43	Y	99
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112	49	49057	2023	21	5	16	2018	2021	2	43	Y	99
101	49	49057	2023	21	1	1	1968	1995	1	12	Y	99
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201	49	49057	2023	21	1	1	1968	1995	1	12	Y	99
202	49	49057	2023	21	1	1	1968	1995	1	12	Y	99
301	49	49057	2023	21	1	1	1968	1995	1	12	Y	99
302	49	49057	2023	21	1	1	1968	1995	1	12	Y	99
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113	49	49057	2023	21	1	4	1968	1995	1	41	Y	99
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113	49	49057	2023	21	1	7	2002	2017	1	43	Y	99
112	49	49057	2023	21	1	10	1996	2001	1	45	Y	99
113	49	49057	2023	21	1	10	1996	2001	1	45	Y	99
101	49	49057	2023	21	1	13	1996	2017	1	51	Y	99

102	49	49057	2023	21	1	13	1996	2017	1	51	Y	99
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202	49	49057	2023	21	1	13	1996	2017	1	51	Y	99
301	49	49057	2023	21	1	13	1996	2017	1	51	Y	99
302	49	49057	2023	21	1	13	1996	2017	1	51	Y	99
101	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
102	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
201	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
202	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
301	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
302	49	49057	2023	21	1	19	2018	2021	2	51	Y	99
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102	49	49057	2023	21	5	1	1968	1995	1	12	Y	99
201	49	49057	2023	21	5	1	1968	1995	1	12	Y	99
202	49	49057	2023	21	5	1	1968	1995	1	12	Y	99
301	49	49057	2023	21	5	1	1968	1995	1	12	Y	99
302	49	49057	2023	21	5	1	1968	1995	1	12	Y	99
112	49	49057	2023	21	5	4	1968	1995	1	41	Y	99
113	49	49057	2023	21	5	4	1968	1995	1	41	Y	99
112	49	49057	2023	21	5	7	2002	2017	1	43	Y	99
113	49	49057	2023	21	5	7	2002	2017	1	43	Y	99
112	49	49057	2023	21	5	10	1996	2001	1	45	Y	99
113	49	49057	2023	21	5	10	1996	2001	1	45	Y	99
101	49	49057	2023	21	5	13	1996	2017	1	51	Y	99
102	49	49057	2023	21	5	13	1996	2017	1	51	Y	99
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202	49	49057	2023	21	5	13	1996	2017	1	51	Y	99
301	49	49057	2023	21	5	13	1996	2017	1	51	Y	99
302	49	49057	2023	21	5	13	1996	2017	1	51	Y	99

101	49	49057	2023	21	5	19	2018	2021	2	51	Y	99
102	49	49057	2023	21	5	19	2018	2021	2	51	Y	99
201	49	49057	2023	21	5	19	2018	2021	2	51	Y	99
202	49	49057	2023	21	5	19	2018	2021	2	51	Y	99
301	49	49057	2023	21	5	19	2018	2021	2	51	Y	99
302	49	49057	2023	21	5	19	2018	2021	2	51	Y	99

Appendix D

MOVES 2023 Basic I/M												
polProcessID	stateID	countyID	yearID	sourceTypeID	fuelTypeID	IMProgramID	begModelYearID	endModelYearID	inspectFreq	test StandardsID	useIMyn	compliance Factor
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302			2023	21	5	19	2001	2023	1	51	Y	100
301			2023	21	5	19	2001	2023	1	51	Y	100
102			2023	21	5	19	2001	2023	1	51	Y	100
101			2023	21	5	19	2001	2023	1	51	Y	100
302			2023	21	5	1	1968	2000	1	11	Y	100
301			2023	21	5	1	1968	2000	1	11	Y	100
102			2023	21	5	1	1968	2000	1	11	Y	100
101			2023	21	5	1	1968	2000	1	11	Y	100
112			2023	21	5	16	2001	2023	1	43	Y	100
302			2023	21	1	19	2001	2023	1	51	Y	100
301			2023	21	1	19	2001	2023	1	51	Y	100
102			2023	21	1	19	2001	2023	1	51	Y	100
101			2023	21	1	19	2001	2023	1	51	Y	100
302			2023	21	1	1	1968	2000	1	11	Y	100
301			2023	21	1	1	1968	2000	1	11	Y	100
102			2023	21	1	1	1968	2000	1	11	Y	100
101			2023	21	1	1	1968	2000	1	11	Y	100