

# **Department of Veterans Affairs**

# Annual Vehicle Fleet Report on Alternative Fuel Vehicles

FY 2019

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#### I. Introduction

The Department of Veterans Affairs (VA) submits this report on progress towards achieving goals of the Energy Policy Act (EPAct) of 1992 and 2005. In FY 2019, VA met the alternative fuel use requirement for the 14<sup>th</sup> year in a row<sup>1</sup>. VA fell slightly short of the acquisition requirements and will pursue improvement next year. VA continues to acquire alternative fuel vehicles (AFVs) and use alternative fuels where possible.

VA addresses the ongoing challenge of acquisition and use of AFVs primarily through education. Central Office fleet personnel conduct in-person and on-line training, and a full complement of on-demand training, including vehicle acquisitions, operations, and reporting, is available.

These steps, together with other actions, will assist VA in achieving its primary goal of providing care for our Nation's Veterans and their families, while striving to achieve compliance with Federal mandates for efficient and effective use of the agency's fleet.

#### II. Compliance with AFV Acquisition Requirements

EPAct 1992 requires covered Federal agencies to ensure that at least 75 percent of their relevant annual vehicle acquisitions are AFVs. The Department of Energy (DOE) is responsible for determining which Federal agencies are subject to this legislation based on the respective size of each agency's motor vehicle fleets and location of their vehicles relative to metropolitan statistical areas (MSAs). EPAct 1992 also directs agencies to publish information about their compliance with this acquisition requirement by the end of February each year.

In FY 2019, the total number of AFVs that VA acquired fell slightly short of the 75 percent EPAct 1992 requirement (see Attachment A for details), reaching 72 percent. This shortfall is due to the fact that many vehicles needed to meet the mission were not available in AFV configurations.

Specifically, VA:

- Acquired 2,379 EPAct-covered vehicles of which 1,687 were AFVs;
- Received an additional 20 credits through the use of biodiesel; and
- Earned a total of 1,707 EPAct credits.

<u>Credits</u>. Federal fleets earn one credit for every bi- or flexible-fuel AFV acquired. Additional credits are earned for using B100 (100 percent biodiesel) or B20 (20 percent biodiesel/80 percent petroleum diesel), as well as for AFVs that operate exclusively on alternative fuel, or are zero emission vehicles.

<sup>&</sup>lt;sup>1</sup> EPAct 2005 Section 701 requires dual fuel cars to operate 100% on alternative fuel, unless DOE grants a waiver.

<u>Vehicles</u>. Flexible-fuel vehicles (FFVs) with the capability to run on E85 (85 percent ethanol/15 percent gasoline) or gasoline were the most common AFV acquired by VA in FY 2019. Of the 1,687 AFVs that VA acquired in FY 2019, 968 were E85 FFVs. Most of the remaining vehicles were gasoline vehicles qualifying as low greenhouse gas vehicles and gasoline hybrids, although VA also acquired four electric vehicles and 36 plug-in hybrids.<sup>2</sup>

<u>Exemptions</u>. Of the 2,565 light duty vehicles that VA acquired in FY 2019, 186 were considered exempt from compliance with EPAct. Exemptions are, in general, granted for fleet size, geographic location, use outside of an MSA, and use for law enforcement or as emergency/emergency response vehicles. The details of VA's vehicle exemptions may be found in Attachment A, Table A1.

In FY 2019, VA earned 1,707 AFV acquisition credits. With the additional credits for biodiesel use, this translates to 72 percent of covered vehicle acquisitions. This is just below the EPAct acquisition requirement of 75 percent.

VA will pursue meeting the AFV acquisition requirement in future years. Attachments B and C offer a detailed look at VA's FY 2020 planned acquisitions and FY 2021 projected acquisitions. Initial projections for FY 2020 and FY 2021 indicate that VA is expected to exceed the requirement in FY 2020 and nearly meet the requirement in FY 2021. VA will pursue meeting the requirement in both years, as further detailed in the conclusion.

#### III. Compliance with Alternative Fuel Use in AFVs

EPAct 2005, Section 701, requires that Federal agencies with alternative fuel-capable vehicles must use alternative fuel when possible. Under Section 701, Federal agencies must request waivers from DOE through the General Services Administration's Federal Automotive Statistical Tool (FAST) for any alternative fuel-capable vehicles subject to the EPAct 1992 acquisition requirements that do not have access to alternative fuels or for which such fuel is unreasonably expensive.

VA requested and received waivers for 1,501 vehicles due to E85 fuel not being available within a reasonable distance. DOE defines reasonable distance as five miles or 15 minutes from the vehicle's garaged location.

Wherever possible, VA vehicles are using local fueling stations that offer alternative fuels. With a decline in availability of E85 vehicles, VA is now focusing on placing gasoline hybrid vehicles, plug-in hybrid vehicles, and dedicated electric vehicles at many locations. To meet the needs of VA's 176 plug-in hybrid vehicles and 55

<sup>&</sup>lt;sup>2</sup> Gasoline Hybrid – uses power such as an internal combustion engine to drive an electric generator that powers an electric motor. Electric – electric motor used for propulsion. Plug-In Hybrid – a hybrid electric vehicle whose battery can be recharged by plugging it into an external source of electric power as well by its on-board engine or generator.

dedicated electric vehicles, 99 electric charging stations are currently installed at 45 facilities.

The table below presents fuel type details on FY 2018 and FY 2019 fuel data:

|                              | FY 2018         | FY 2019          |
|------------------------------|-----------------|------------------|
| -                            | Gasoline Gallon | Equivalent (GGE) |
| Total Alternative Fuel Use   | 1,069,652       | 949,235          |
| Total Covered Petroleum Use* | 8,894,607       | 9,083,324        |
|                              | 0.004.050       | 40.040.047       |
| Total Fuel Use               | 9,964,259       | 10,613,947       |
| % Alternative Fuel Use       | 10.7%           | 9.5%             |

VA FY 2018 and FY 2019 Fuel Use Data

\*Limited to domestic vehicles, less law enforcement, emergency/emergency response and armored vehicles

VA alternative fuel use decreased somewhat in volume and as a percent of total fuel use. VA continues to maintain a high percentage of alternative fuel use across its fleet. In FY 2019, alternative fuel comprised 9.5 percent of total VA vehicle fuel use. VA covered petroleum use increased somewhat compared to FY 2018.

#### **IV. Summary and Conclusions**

In FY 2019, VA satisfied the alternative fuel use requirements of the Energy Policy Acts of 1992 and 2005. VA was slightly below the requirement for alternative fuel vehicle acquisition and will seek improvement in FY 2020.

<u>Future Performance</u>. VA's plans future improvement through acquisition of more gasoline hybrid vehicles, continued installation of electric vehicle charging systems, expansion of training for fleet managers, and use of annual utilization reports to help right size the fleet while meeting agency mission and goals. VA will continue to acquire all types of AFVs to meet requirements.

## **ATTACHMENTA**

## FY 2019 Actual VA Vehicle Acquisitions

Attachment A includes the following tables:

- A1. 2019 Actual Light-Duty Vehicle Acquisitions and Exemptions
- A2. 2019 Actual Alternative Fuel Vehicle Acquisition Detail
- A3. 2019 Actual EPAct Acquisition Credits Summary

#### Table A1. Actual Light-Duty Vehicle Acquisitions and Exemptions

|                                       | Acquisitions |           |       |  |
|---------------------------------------|--------------|-----------|-------|--|
|                                       | Leased       | Purchased | Total |  |
| Total Light-Duty Vehicle Acquisitions | 2,428        | 137       | 2,565 |  |
| Exemption: Fleet Size                 | 0            | 0         | 0     |  |
| Exemption: Foreign                    | 0            | 0         | 0     |  |
| Exemption: Geographic                 | 37           | 2         | 39    |  |
| Exemption: LE Vehicle                 | 139          | 2         | 141   |  |
| Exemption: Non-covered Vehicle        | 0            | 2         | 2     |  |
| Exemption: Non-MSA Operation          | 4            | 0         | 4     |  |
| Total EPAct-Covered Vehicles          | 2,248        | 131       | 2,379 |  |

Abbreviations/terminology used in tables:

4x2 = Two-wheel drive

4x4 = Four-wheel drive

AF = Alternative Fuel: Non-traditional vehicle fuel such as natural gas, bio-fuels, and electricity

AFV = Alternative Fuel Vehicle: Vehicle that operates on an alternative fuel

BI = Bi-fuel: Two separate, but parallel, fuel systems; these fuels never mix

CNG = Compressed Natural Gas: Natural gas compressed for storage in a tank

DE = Dedicated: Single fuel type

DSL = Diesel

E85 = E85 fuel: Fuel that is 85% ethanol and 15% gasoline

ELE = Electric: Powered by electricity

EPAct = Energy Policy Act

FF = Flex fuel: Two fuel types used by the same system. These fuels mix in the vehicle tank.

GAS = Gasoline: Gasoline containing less than 85% ethanol.

HD = Heavy duty

- HY = Hybrid: Vehicle that uses an electric engine for operation under certain conditions, such as low speeds or to supplement a fuel powered engine
- LD = Light duty
- LE = Law Enforcement

MD = Medium Duty

MSA = Metropolitan Statistical Area: Areas defined by EPA

PH = Plug-in Hybrid: Hybrid vehicle that can be plugged in to external electric charging system.

SUV = Sport Utility Vehicle: Combination truck and passenger vehicle

### ATTACHMENT A - continued

| Vehicle Type               | Fuel                | LE      |                | Acquisition | S     | EPAct   |
|----------------------------|---------------------|---------|----------------|-------------|-------|---------|
|                            |                     |         | Lease Purchase |             | Total | Credits |
|                            | Light D             | utv Vel |                | 1 01 01000  | 1000  |         |
| Sedan/St Wgn Compact       | GAS DE              | No      | 36             | 1           | 37    | 37      |
| Sedan/St Wgn Compact       | GAS DE              | Yes     | 8              | 0           | 8     | 0       |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup> | No      | 256            | 0           | 256   | 256     |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup> | Yes     | 2              | 0           | 2     | 0       |
| Sedan/St Wgn Compact       | GAS/E85 FF          | No      | 24             | 0           | 24    | 24      |
| Sedan/St Wgn Compact       | GAS/E85 FF          | Yes     | 1              | 0           | 1     | 0       |
| Sedan/St Wgn Compact       | GAS/ELE PH          | No      | 21             | 0           | 21    | 21      |
| Sedan/St Wgn Midsize       | GAS/E85 FF          | No      | 33             | 4           | 37    | 37      |
| Sedan/St Wgn Midsize       | GAS/E85 FF          | Yes     | 14             | 0           | 14    | 0       |
| Sedan/St Wgn Subcompact    | DSL DE              | No      | 1              | 0           | 1     | 1       |
| Sedan/St Wgn Subcompact    | ELE DE              | No      | 2              | 0           | 2     | 2       |
| Sedan/St Wgn Subcompact    | GAS DE              | No      | 40             | 0           | 40    | 40      |
| Sedan/St Wgn Subcompact    | GAS DE              | Yes     | 2              | 0           | 2     | 0       |
| Sedan/St Wgn Subcompact    | GAS HY <sup>3</sup> | No      | 136            | 0           | 136   | 136     |
| Sedan/St Wgn Subcompact    | GAS/E85 FF          | No      | 14             | 0           | 14    | 14      |
| Sedan/St Wgn Subcompact    | GAS/ELE PH          | No      | 10             | 0           | 10    | 10      |
| Low-speed Vehicle          | ELE DE              | No      | 0              | 2           | 2     | 0       |
| LD Minivan 4x2(Cargo)      | GAS DE              | No      | 1              | 0           | 1     | 1       |
| LD Minivan 4x2 (Cargo)     | GAS/E85 FF          | No      | 20             | 0           | 20    | 20      |
| LD Minivan 4x2 (Passenger) | GAS DE              | No      | 19             | 0           | 19    | 19      |
| LD Minivan 4x2 (Passenger) | GAS DE              | Yes     | 2              | 0           | 2     | 0       |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF          | No      | 370            | 6           | 376   | 376     |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF          | Yes     | 7              | 0           | 7     | 0       |
| LD Minivan 4x2 (Passenger) | GAS/ELE PH          | No      | 5              | 0           | 5     | 5       |
| LD Pickup 4x2              | GAS/E85 FF          | No      | 54             | 0           | 54    | 54      |
| LD Pickup 4x2              | GAS/E85 FF          | Yes     | 2              | 0           | 2     | 0       |
| LD SUV 4x2                 | GAS DE              | No      | 24             | 2           | 26    | 26      |
| LD SUV 4x2                 | GAS DE              | Yes     | 4              | 0           | 4     | 0       |
| LD SUV 4x2                 | GAS HY <sup>3</sup> | No      | 36             | 2           | 38    | 38      |
| LD SUV 4x2                 | GAS HY <sup>3</sup> | Yes     | 1              | 0           | 1     | 0       |
| LD SUV 4x2                 | GAS/E85 FF          | No      | 40             | 16          | 56    | 56      |
| LD SUV 4x2                 | GAS/E85 FF          | Yes     | 4              | 0           | 4     | 0       |
| LD Van 4x2 (Cargo)         | GAS/E85 FF          | No      | 10             | 0           | 10    | 10      |
| LD Van 4x2 (Passenger)     | GAS/E85 FF          | No      | 22             | 2           | 24    | 24      |
| LD Pickup 4x4              | GAS/E85 FF          | No      | 24             | 0           | 24    | 24      |
| LD Pickup 4x4              | GAS/E85 FF          | Yes     | 4              | 0           | 4     | 0       |
| LD SUV 4x4                 | DSL DE              | No      | 2              | 0           | 2     | 2       |
| LD SUV 4x4                 | GAS DE              | No      | 107            | 2           | 109   | 109     |
| LD SUV 4x4                 | GAS DE              | Yes     | 13             | 0           | 13    | 0       |
| LD SUV 4x4                 | GAS HY <sup>3</sup> | No      | 9              | 0           | 9     | 9       |
| LD SUV 4x4                 | GAS/E85 FF          | No      | 73             | 0           | 73    | 73      |
| LD SUV 4x4                 | GAS/E85 FF          | Yes     | 43             | 1           | 44    | 0       |
| LD Van 4x4 (Cargo)         | GAS/E85 FF          | No      | 1              | 0           | 1     | 1       |
| LD Van 4x4 (Passenger)     | GAS/E85 FF          | No      | 2              | 0           | 2     | 2       |
|                            | Medium              |         |                | -           |       | •       |
| MD Bus                     | GAS/E85 FF          | No      | 5              | 2           | 7     | 7       |
| MD Other                   | GAS/E85 FF          | No      | 15             | 5           | 20    | 20      |
| MD Pickup                  | GAS/CNG-BI          | No      | 1              | 0           | 1     | 1       |
| MD Pickup                  | GAS/E85 FF          | No      | 42             | 0           | 42    | 42      |
| MD Van (Cargo)             | GAS/E85 FF          | No      | 39             | 4           | 43    | 43      |
| MD Van (Passenger)         | GAS/E85 FF          | No      | 126            | 15          | 141   | 141     |

#### Table A2. Actual Alternative Fuel Vehicle Acquisition Detail

## ATTACHMENTA - continued

| Heavy Duty Vehicles |                     |    |       |    |       |       |
|---------------------|---------------------|----|-------|----|-------|-------|
| HD                  | CNG DE              | No | 2     | 0  | 2     | 2     |
| HD                  | DSL HY <sup>3</sup> | No | 0     | 1  | 1     | 1     |
| HD                  | GAS/CNG BI          | No | 0     | 3  | 3     | 3     |
| Totals:             |                     |    | 1,729 | 68 | 1,797 | 1,687 |

#### Table A3. Actual EPAct Acquisition Credits Summary

| Base AFV Acquisition Credits:                      | 1,687 |
|--|-------|
| Zero Emission Vehicle (ZEV) Credits:               | 0     |
| Dedicated Light Duty AFV Credits:                  | 0     |
| Dedicated Medium Duty AFV Credits:                 | 0     |
| Dedicated Heavy Duty AFV Credits:                  | 0     |
| Biodiesel and Renewable Diesel Fuel Usage Credits: | 20    |
| Total EPAct Credits:                               | 1,707 |
| Overall EPAct Compliance Percentage:               | 72 %  |

## **ATTACHMENT B**

## FY 2020 Planned VA Vehicle Acquisitions

Attachment B includes the following tables:

- B1. Planned Light-Duty Vehicle Acquisitions and Exemptions (2020)
- B2. Planned Alternative Fuel Vehicle Acquisition Detail (2020)
- B3. Planned EPAct Acquisition Credits Summary (2020)

#### Table B1. Planned Light-Duty Vehicle Acquisitions and Exemptions (2020)

|   | Acquisitions |           |       |  |
|---|--------------|-----------|-------|--|
|   | Leased       | Purchased | Total |  |
| Total Light-Duty Vehicle Acquisitions   | 3,103        | 27        | 3,130 |  |
| Fleet Exemptions: Fleet Size            | 0            | 0         | 0     |  |
| Fleet Exemptions: Foreign               | 0            | 0         | 0     |  |
| Fleet Exemptions: Geographic            | 0            | 0         | 0     |  |
| Vehicle Exemptions: LE Vehicle          | 147          | 1         | 148   |  |
| Vehicle Exemptions: Non-covered Vehicle | 0            | 0         | 0     |  |
| Vehicle Exemptions: Non-MSA Operation   | 0            | 0         | 0     |  |
| Total EPAct-Covered Vehicles            | 2,956        | 26        | 2,982 |  |

Abbreviations/terminology used in tables:

4x2 = Two-wheel drive

4x4 = Four-wheel drive

AF = Alternative Fuel: Non-traditional vehicle fuel such as natural gas, bio-fuels, and electricity

AFV = Alternative Fuel Vehicle: Vehicle that operates on an alternative fuel

BI = Bi-fuel: Two separate, but parallel, fuel systems; these fuels never mix

CNG = Compressed Natural Gas: Natural gas compressed for storage in a tank

DE = Dedicated: Single fuel type

DSL = Diesel

E85 = E85 fuel: Fuel that is 85% ethanol and 15% gasoline

ELE = Electric: Powered by electricity

EPAct = Energy Policy Act

FF = Flex fuel: Two fuel types used by the same system. These fuels mix in the vehicle tank.

GAS = Gasoline: Gasoline containing less than 85% ethanol.

- HD = Heavy duty
- HY = Hybrid: Vehicle that uses an electric engine for operation under certain conditions, such as low speeds or to supplement a fuel powered engine
- LD = Light duty
- LE = Law Enforcement
- MD = Medium Duty
- MSA = Metropolitan Statistical Area: Areas defined by EPA
- PH = Plug-in Hybrid: Hybrid vehicle that can be plugged in to external electric charging system.
- SUV = Sport Utility Vehicle: Combination truck and passenger vehicle

#### **ATTACHMENT B** - continued Table B2. Planned Alternative Fuel Vehicle Acquisition Detail (2020)

| Vehicle Type               | e Fuel LE Acquisitions |         |          |          |       | EPAct   |
|----------------------------|------------------------|---------|----------|----------|-------|---------|
| venicie i ype              | i dei                  |         | Lease    | Purchase | Total | Credits |
|                            | Light D                | Duty Ve | ehicles  |          |       |         |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup>    | No      | 308      | 1        | 309   | 309     |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup>    | Yes     | 9        | 0        | 9     | 0       |
| Sedan/St Wgn Compact       | GAS/E85 FF             | No      | 138      | 1        | 139   | 139     |
| Sedan/St Wgn Compact       | GAS/E85 FF             | Yes     | 3        | 0        | 3     | 0       |
| Sedan/St Wgn Midsize       | GAS/E85 FF             | No      | 45       | 3        | 48    | 48      |
| Sedan/St Wgn Midsize       | GAS/E85 FF             | Yes     | 41       | 0        | 41    | 0       |
| Sedan/St Wgn Subcompact    | GAS HY <sup>3</sup>    | No      | 144      | 0        | 144   | 144     |
| Sedan/St Wgn Subcompact    | GAS HY <sup>3</sup>    | Yes     | 3        | 0        | 3     | 0       |
| Sedan/St Wgn Subcompact    | GAS/E85 FF             | No      | 421      | 0        | 421   | 421     |
| Sedan/St Wgn Subcompact    | GAS/E85 FF             | Yes     | 1        | 0        | 1     | 0       |
| Sedan/St Wgn Subcompact    | GAS/ELE PH             | No      | 23       | 0        | 23    | 23      |
| LD Minivan 4x2 (Cargo)     | GAS/E85 FF             | No      | 31       | 2        | 33    | 33      |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF             | No      | 595      | 6        | 601   | 601     |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF             | Yes     | 3        | 0        | 3     | 0       |
| LD Pickup 4x2              | GAS HY <sup>3</sup>    | Yes     | 1        | 0        | 1     | 0       |
| LD Pickup 4x2              | GAS/E85 FF             | No      | 49       | 4        | 53    | 53      |
| LD Pickup 4x2              | GAS/E85 FF             | Yes     | 2        | 0        | 2     | 0       |
| LD SUV 4x2                 | GAS/E85 FF             | No      | 65       | 0        | 65    | 65      |
| LD SUV 4x2                 | GAS/E85 FF             | Yes     | 11       | 0        | 11    | 0       |
| LD Van 4x2 (Cargo)         | GAS/E85 FF             | No      | 18       | 0        | 18    | 18      |
| LD Van 4x2 (Passenger)     | GAS/E85 FF             | No      | 63       | 1        | 64    | 64      |
| LD Pickup 4x4              | GAS/E85 FF             | No      | 22       | 0        | 22    | 22      |
| LD SUV 4x4                 | GAS HY <sup>3</sup>    | No      | 1        | 0        | 1     | 1       |
| LD SUV 4x4                 | GAS/E85 FF             | No      | 149      | 3        | 152   | 152     |
| LD SUV 4x4                 | GAS/E85 FF             | Yes     | 31       | 1        | 32    | 0       |
| LD Van 4x4 (Cargo)         | GAS/E85 FF             | No      | 3        | 0        | 3     | 3       |
| LD Van 4x4 (Passenger)     | GAS/E85 FF             | No      | 6        | 0        | 6     | 6       |
|                            | Medium                 | Duty    | Vehicles |          |       |         |
| MD Other                   | GAS/E85 FF             | No      | 28       | 0        | 28    | 28      |
| MD Pickup                  | GAS/CNG BI             | No      | 2        | 0        | 2     | 2       |
| MD Pickup                  | GAS/E85 FF             | No      | 59       | 0        | 59    | 59      |
| MD Van (Cargo)             | GAS/E85 FF             | No      | 42       | 0        | 42    | 41      |
| MD Van (Passenger)         | GAS/E85 FF             | No      | 99       | 5        | 104   | 104     |
| MD Van (Passenger)         | GAS/E85 FF             | Yes     | 2        | 0        | 2     | 0       |
| Totals:                    |                        |         | 2,418    | 27       | 2,445 | 2,336   |

#### Table B3. Planned EPAct Acquisition Credits Summary (2020)

| Base AFV Acquisition Credits:        | 2,336 |
|--------------------------------------|-------|
| Zero Emission Vehicle (ZEV) Credits: | 0     |
| DEDICATED Light Duty AFV Credits:    | 0     |
| DEDICATED Medium Duty AFV Credits:   | 0     |
| DEDICATED Heavy Duty AFV Credits:    | 0     |
| Biodiesel Fuel Usage Credits:        | 0     |
| Total EPAct Credits:                 | 2,336 |
| Overall EPAct Compliance Percentage: | 78%   |

## ATTACHMENT C

#### FY 2021 PROJECTED VA VEHICLE ACQUISITIONS

Attachment C includes the following tables:

- C1. Projected Light-Duty Vehicle Acquisitions and Exemptions (2021)
- C2. Projected Alternative Fuel Vehicle Acquisition Detail (2021)
- C3. Projected EPAct Acquisition Credits Summary (2021)

#### C1. Projected Light-Duty Vehicle Acquisitions and Exemptions (2021)

|   | Acquisitions |           |       |  |
|---|--------------|-----------|-------|--|
|   | Leased       | Purchased | Total |  |
| Total Light-Duty Vehicle Acquisitions   | 2,565        | 11        | 2,576 |  |
| Fleet Exemptions: Fleet Size            | 0            | 0         | 0     |  |
| Fleet Exemptions: Foreign               | 0            | 0         | 0     |  |
| Fleet Exemptions: Geographic            | 0            | 0         | 0     |  |
| Vehicle Exemptions: LE Vehicle          | 128          | 0         | 128   |  |
| Vehicle Exemptions: Non-covered Vehicle | 0            | 5         | 5     |  |
| Vehicle Exemptions: Non-MSA Operation   | 0            | 0         | 0     |  |
| Total EPAct-Covered Vehicles            | 2,437        | 6         | 2,443 |  |

Abbreviations/terminology used in tables:

4x2 = Two-wheel drive

4x4 = Four-wheel drive

AF = Alternative Fuel: Non-traditional vehicle fuel such as natural gas, bio-fuels, and electricity

AFV = Alternative Fuel Vehicle: Vehicle that operates on an alternative fuel

BI = Bi-fuel: Two separate, but parallel, fuel systems; these fuels never mix

CNG = Compressed Natural Gas: Natural gas compressed for storage in a tank

DE = Dedicated: Single fuel type

DSL = Diesel

E85 = E85 fuel: Fuel that is 85% ethanol and 15% gasoline

ELE = Electric: Powered by electricity

EPAct = Energy Policy Act

FF = Flex fuel: Two fuel types used by the same system. These fuels mix in the vehicle tank.

GAS = Gasoline: Gasoline containing less than 85% ethanol.

- HD = Heavy duty
- HY = Hybrid: Vehicle that uses an electric engine for operation under certain conditions, such as low speeds or to supplement a fuel powered engine
- LD = Light duty
- LE = Law Enforcement

MD = Medium Duty

MSA = Metropolitan Statistical Area: Areas defined by EPA

PH = Plug-in Hybrid: Hybrid vehicle that can be plugged in to external electric charging system.

SUV = Sport Utility Vehicle: Combination truck and passenger vehicle

### ATTACHMENT C - continued

| Vehicle Type               | Fuel                | LE   | A        | Acquisitions |       |         |  |
|----------------------------|---------------------|------|----------|--------------|-------|---------|--|
|                            |                     |      | Lease    | Purchase     | Total | Credits |  |
| Light Duty Vehicles        |                     |      |          |              |       |         |  |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup> | No   | 229      | 1            | 230   | 230     |  |
| Sedan/St Wgn Compact       | GAS HY <sup>3</sup> | Yes  | 5        | 0            | 5     | 0       |  |
| Sedan/St Wgn Compact       | GAS/E85 FF          | No   | 233      | 0            | 233   | 233     |  |
| Sedan/St Wgn Compact       | GAS/E85 FF          | Yes  | 9        | 0            | 9     | 0       |  |
| Sedan/St Wgn Midsize       | GAS/E85 FF          | No   | 13       | 0            | 13    | 13      |  |
| Sedan/St Wgn Midsize       | GAS/E85 FF          | Yes  | 33       | 0            | 33    | 0       |  |
| Sedan/St Wgn Subcompact    | CNG DE              | No   | 1        | 0            | 1     | 1       |  |
| Sedan/St Wgn Subcompact    | GAS HY <sup>3</sup> | No   | 167      | 0            | 167   | 167     |  |
| Sedan/St Wgn Subcompact    | GAS HY <sup>3</sup> | Yes  | 5        | 0            | 5     | 0       |  |
| Sedan/St Wgn Subcompact    | GAS/E85 FF          | No   | 248      | 0            | 248   | 248     |  |
| Sedan/St Wgn Subcompact    | GAS/E85 FF          | Yes  | 1        | 0            | 1     | 0       |  |
| Sedan/St Wgn Subcompact    | GAS/ELE PH          | No   | 21       | 0            | 21    | 21      |  |
| Low-speed Vehicle          | ELE DE              | No   | 0        | 5            | 5     | 0       |  |
| LD Minivan 4x2(Cargo)      | GAS/E85 FF          | No   | 16       | 0            | 16    | 16      |  |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF          | No   | 385      | 0            | 385   | 385     |  |
| LD Minivan 4x2 (Passenger) | GAS/E85 FF          | Yes  | 4        | 0            | 4     | 0       |  |
| LD Minivan 4x2 (Passenger) | GAS/ELE PH          | No   | 1        | 0            | 1     | 1       |  |
| LD Pickup 4x2              | GAS/E85 FF          | No   | 48       | 0            | 48    | 48      |  |
| LD Pickup 4x2              | GAS/E85 FF          | Yes  | 2        | 0            | 2     | 0       |  |
| LD SUV 4x2                 | GAS HY <sup>3</sup> | No   | 0        | 1            | 1     | 1       |  |
| LD SUV 4x2                 | GAS/E85 FF          | No   | 92       | 0            | 92    | 92      |  |
| LD SUV 4x2                 | GAS/E85 FF          | Yes  | 10       | 0            | 10    | 0       |  |
| LD Van 4x2 (Cargo)         | GAS/E85 FF          | No   | 6        | 0            | 6     | 6       |  |
| LD Van 4x2 (Passenger)     | GAS/E85 FF          | No   | 33       | 0            | 33    | 33      |  |
| LD Van 4x2 (Passenger)     | GAS/E85 FF          | Yes  | 1        | 0            | 1     | 0       |  |
| LD Pickup 4x4              | GAS/E85 FF          | No   | 15       | 0            | 15    | 15      |  |
| LD SUV 4x4                 | GAS/E85 FF          | No   | 170      | 0            | 170   | 170     |  |
| LD SUV 4x4                 | GAS/E85 FF          | Yes  | 30       | 0            | 30    | 0       |  |
| LD Van 4x4 (Cargo)         | GAS/E85 FF          | No   | 4        | 0            | 4     | 4       |  |
| LD Van 4x4 (Passenger)     | GAS/E85 FF          | No   | 4        | 0            | 4     | 4       |  |
|                            | Medium              | Duty | Vehicles |              |       |         |  |
| MD Other                   | GAS/E85 FF          | No   | 19       | 0            | 19    | 19      |  |
| MD Pickup                  | GAS/E85 FF          | No   | 40       | 0            | 40    | 40      |  |
| MD Pickup                  | GAS/E85 FF          | Yes  | 1        | 0            | 1     | 0       |  |
| MD Van (Cargo)             | GAS/E85 FF          | No   | 19       | 0            | 19    | 19      |  |
| MD Van (Passenger)         | GAS/E85 FF          | No   | 38       | 1            | 39    | 39      |  |
| Totals:                    |                     |      | 1,903    | 8            | 1,911 | 1,805   |  |

#### Table C2. Projected Alternative Fuel Vehicle Acquisition Detail (2021)

#### Table C3. Projected EPAct Acquisition Credits Summary (2021)

| Base AFV Acquisition Credits:        | 1,805 |
|--------------------------------------|-------|
| Zero Emission Vehicle (ZEV) Credits: | 0     |
| DEDICATED Light Duty AFV Credits:    | 0     |
| DEDICATED Medium Duty AFV Credits:   | 0     |
| DEDICATED Heavy Duty AFV Credits:    | 0     |
| Biodiesel Fuel Usage Credits:        | 0     |
| Total EPAct Credits:                 | 1,805 |
| Overall EPAct Compliance Percentage: | 74%   |