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-	by: Linda Wong by: Linda Wong	Date		2017 25, 2017

AMENDED IN BOARD 5/2/17 ORDINANCE NO.

FILE NO. 170210

NOTE:

[Administrative, Environment Codes - Zero Emission Vehicle Requirements for City Fleet]

Ordinance amending the Administrative and Environment Codes to require that any new passenger vehicle procured for the City fleet be a Zero Emission Vehicle, absent a waiver, and that all passenger vehicles in the City fleet be Zero Emission Vehicles by December 31, 20202; and to encourage selection of Zero Emission Vehicles in other vehicle classes as technology improves.

Unchanged Code text and uncodified text are in plain Arial font.

Additions to Codes are in single-underline italics Times New Roman font.

Deletions to Codes are in strikethrough italics Times New Roman font.

Board amendment additions are in double-underlined Arial font.

Board amendment deletions are in strikethrough Arial font.

Asterisks (* * * *) indicate the omission of unchanged Code subsections or parts of tables.

Be it ordained by the People of the City and County of San Francisco:

Section 1. The Administrative Code is hereby amended by revising Section 4.10-1, to read as follows:

SEC. 4.10-1. CITY-OWNED AND LEASED VEHICLES; FLEET MANAGEMENT PROGRAM.

(b) The City Administrator shall have primary authority over vehicles now or hereafter placed under his or her jurisdiction, but may assign these vehicles for use by City officers and departments. The City Administrator may adopt rules and regulations necessary to implement this vehicle fleet management program, including rules covering: terms, conditions, usage, and fees for assignment of vehicles by the City Administrator to individual City officers and

departments; vehicle maintenance programs; training, in coordination with the Office of Economic and Workforce Development, for drivetrain maintenance on Alternative Fuel Vehicles and Zero Emissions Vehicles as defined by Environment Code Section 403; and vehicle replacement plans, provided that the City Administrator shall not approve the purchase of any motor vehicle that does not comply with Environment Code Section 404. Fees charged for the assignment of vehicles shall be set by the City Administrator in consultation with the Controller, and the fees shall be used to pay for acquisition and replacement of vehicles, maintenance and repair, and other costs of administering the program. The City Administrator may make appropriate provision for vehicles previously acquired using special, dedicated or otherwise restricted funds.

(c) By December 31, 20202, all light duty vehicles in the City fleet must be Zero Emission

Vehicles in compliance with Environment Code Section 404, unless there is a waiver, exemption, or applicable exception, detailed in Environment Code Chapter 4.

Section 2. The Environment Code is hereby amended by revising Sections 401, 403, and 404, to read as follows:

SEC. 401. DEFINITIONS.

"Alternative Fuel With Low Carbon Intensity" means any transportation fuel that is less polluting than gasoline or petroleum diesel fuel, as determined by the California Air Resources Board and that is shown to have lower lifecycle carbon emissions than gasoline or petroleum diesel. Alternative Fuels with Low Carbon Intensity may include, but are not limited to: natural gas; propane; biofuels from low carbon, sustainable and preferably local sources; hydrogen produced from low carbon and/or renewable sources; and electricity.

"Alternative Fuel Vehicle" means any motor vehicle powered by alternative fuel with low carbon intensity.

"Bus" means any passenger vehicle with a seating capacity of more than *fifteen* (15) persons.

"City" means City and County of San Francisco.

"City Administrator" means the City Administrator, or his or her designee.

"Department" means any officer, board, commission, department or other division of the City and County of San Francisco. Department does not include the San Francisco Unified School District, the San Francisco Community College District, the San Francisco Office of Community Investment and Infrastructure, or the San Francisco Housing Authority or any other local, State, or Federal agency.

"Emergency Vehicle" means any vehicle publicly owned and operated that is used by a public safety officer for law enforcement purposes, fighting fires or responding to emergency fire calls, or used by emergency medical technicians or paramedics for official purposes. For purposes of this Chapter 4, "Emergency Vehicle" shall also mean any vehicle used by the Office of the Chief Medical Examiner or the Department of Animal Care and Control for official duties. Unless equipped with lights and sirens, vehicles used for primarily administrative functions such as passenger transport shall not be considered an "Emergency Vehicle" for the purposes of this Chapter 4.

"General Passenger Van" means a Passenger Vehicle that meets the criteria of a Federal Highway Administration Class 3 Vehicle that is not a pick-up.

"Greenhouse gas (GHG) or greenhouse gas emissions" means and includes all of the following gases: carbon dioxide, methane, and nitrous oxide. The City Administrator, in consultation with the Department of the Environment, shall determine the method by which these emissions shall be measured.

"Light-Duty Passenger Vehicle" means a Passenger Vehicle that meets the criteria of a Federal Highway Administration Class 2 Vehicle that include all sedans, coupes

and station wagons primarily for the purposes of carrying passengers, and comprising of no more than 5 seats in addition to the driver's seat.

"Light-Duty Truck" means any motor vehicle, with a manufacturer's gross vehicle weight rating of 8,500 pounds or less, that is designed primarily for purposes of transportation of property or is a derivative of such a vehicle, or is available with special features enabling off-street or off-highway operation and use.

"Motor Vehicle" means a self-propelled vehicle.

"Passenger Vehicle" means any motor vehicle designed primarily for transportation of persons and with a design capacity of *twelve* (12) persons or less.

"Plug-In Hybrid Electric Vehicle" means a vehicle with both an electric motor and a gasoline engine, as determined by the California Air Resources Board. It can be fueled using both electricity and gasoline.

"Public Safety Department" means the Police Department, the Sheriff's

Department, and the Fire Department. For purposes of this Chapter 4, "Public Safety

Department" shall also include the Office of the Chief Medical Examiner and the Department of Animal Care and Control.

"Purchase" means to buy, lease, or otherwise acquire the right to use.

"Remove from service" means to complete filings with the California Department of Motor Vehicles either to remove the City as the motor vehicle owner permanently, or to register the motor vehicle as non-operational for the relevant fiscal year.

"Vehicle Selector List" means a document issued by <u>the</u> City Administrator, in consultation with the Department of the Environment, which provides emissions data for <u>Light-Duty Passenger Vehicles general purpose sedans</u>, light_duty pickup trucks, and vans with a gross vehicle weight under 8,500 pounds. The Vehicle Selector List will consider estimated long-term costs and emissions, and *when Zero Emission Vehicles are unavailable in the*

<u>marketplace</u>, identify vehicles that have emissions as low as practicable and efficiency ratings as high as practicable.

"Zero Emission Vehicle" means a vehicle that produces no emissions from the on-board source of power, as determined by the California Air Resources Board.

SEC. 403. FLEET MANAGEMENT PROMOTING HEALTHY AIR AND CLEAN TRANSPORTATION.

- (b) **Optimizing Fleet Management.** To help the City achieve its air pollution and greenhouse gas reduction goals, and promote the effective, efficient, and safe use of all general purpose, light-duty vehicles owned, leased, or rented by the City, the City Administrator will adopt and implement policies to:
- (1) Minimize the size and utilization of the City's general purpose, light-duty fleet through right-size analyses that accurately incorporates the City's Transit-First policy and associated infrastructure investments towards eliminating unnecessary vehicles and vehicle trips.

Optimize the size and utilization of the City's general purpose, light-duty fleet, with emphasis on right sizing the fleet and eliminating unnessary or non-essential vehicles;

- (2) Use technology such as telematics and vehicle assignment systems, to the furthest extent practicable, to promote the safe use of vehicles, minimize environmentally harmful practices such as excessive vehicle idling, and reduce underutilization of vehicles;
- (3) Align greenhouse gas reduction goals with the Federal Executive Order Planning for Federal Sustainability in the Next Decade, dated March 19, 2015 reducing average per-mile greenhouse gas emissions from general purpose, light-duty fleet vehicles, relative to a baseline of emissions in fiscal year 2014, to achieve the following percentage

reductions: (A) not less than $4\frac{\%}{percent}$ by the end of fiscal year 2017; and (B) not less than $15\frac{\%}{percent}$ by the end of fiscal year 2021;

- (4) Ensure that the composition of the City's general Light-Duty Passenger Vehicle fleet is entirely Zero Emission Vehicles consistent with Section 404 by December 31, 20202, and seek out new and emerging technologies to upgrade the City's other fleet classes such as trucks and vans to zero emission standards; and
- (45) Conduct a review one year after the initial implementation of these policies, and every year thereafter, to assess telematics data, review developments in low carbon fuels, evaluate possible coverage of additional vehicle classes, evaluate additional GHG goals, evaluate, in coordination with the Office of Economic and Workforce Development, training opportunities for drivetrain maintenance on Alternative Fuel Vehicles and Zero Emissions Vehicles, explore new technologies allowing for conversion of light-duty trucks and general passenger vans to Zero Emission Vehicle status, and other topics the City Administrator deems are relevant, to serve as a basis for the City Administrator, in consultation with the Director of the Department of the Environment, to adopt and implement further policy changes regarding fleet management as appropriate. The City Administrator shall submit an annual report to the Board of Supervisors and the Mayor outlining the findings of this annual review, possible upgrade opportunities with regard to vehicle emissions for light-duty trucks and general passenger vans, possible training opportunities for drivetrain maintenance on Alternative Fuel Vehicles and Zero Emissions Vehicles, and any additional resulting policy changes in fleet management, including recommendations for mandatory fleet reductions if warranted.

SEC. 404. NEW OR REPLACEMENT MOTOR VEHICLES.

(a) Unless granted a waiver under Section 404(b) or exempt under sub Section 404(c), City officials may not purchase or authorize the purchase of any motor vehicle unless the purchase complies with each of the following:

- (1) The purchase complies with the Transit-First policy required under Section 403(a) and adopted by the department or City official for whose use the vehicle is principally intended;
- (2) A general purpose sedan or other similarly sized vehicle <u>Light-Duty Passenger</u>

 <u>Vehicle requested for purchase or lease is a Zero Emission Vehicle;</u>
- (32) A passenger vehicle or light-duty truck or general passenger van requested for purchase is an approved make and model under the applicable Vehicle Selector List; and,
- (43) The motor vehicle requested for purchase meets all applicable safety standards and other requirements for the intended use of the vehicle.
- (b) **Waivers.** The City Administrator may waive the requirements of Section 404(a) where he or she finds that
- (1) there is no passenger vehicle or light-duty truck approved by the Vehicle Selector List that meets all applicable safety standards and other requirements for the intended use of the motor vehicle; or
- (2) the passenger vehicle or light-duty truck will be used primarily outside of the geographic limits of the City and County of San Francisco in location(s) which lack required fueling or other infrastructure required for a complying motor vehicle; *or*
- (3) the passenger vehicle or light-duty truck would be required to be a Zero Emission

 Vehicle, but the most common intended use for the vehicle will require it to regularly travel distances of more than 100 miles without being able to use a charging station-; or
- (4) for Light-Duty Passenger vehicles that are regularly stationed when not in use on City owned property, (A) purchasing a Zero Emission Vehicle would create operational challenges such as lack of charging infrustructure on City-owned property, (B) the department is purchasing a Plug-In Hybrid Electric Vehicle in lieu of a Zero Emission Vehicle, and (C) at

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<u>least 75% of all Light-Duty Passenger vehicles that are regularly stationed when not in use on</u>
<u>City owned property are Zero Emission Vehicles; or</u>

(5) for Light-Duty Passenger vehicles that are regularly stationed when not in use on non-City owned property, (A) purchasing a Zero Emission Vehicle would be impractical due to operational challenges such as a lack of charging infrastructure, and (B) the department is purchasing a Plug-In Hybrid Electric Vehicle in lieu of a Zero Emission Vehicle.

Waivers must be made in a fashion as to ensure that only the minimum number of vehicles not in compliance with Section 404(a) needed by a department remain in the fleet. Departments may submit one single waiver request to cover the annual purchases, waivers do not need to be submitted on an individual purchase basis. If a waiver is requested under subsection 404(b)(4), the waiver must address the present lack of charging infrastructure, and address the feasibility of future improvements to develop such charging infrastructure. As part of his or her annual report to the Board of Supervisors and the Mayor under Section 403(b)(4), the City Administrator shall report on the number of new waivers granted under this subsection (b) for the prior year.

- (c) **Exemptions.** This Section <u>404</u> shall not apply in the following circumstances:
- (1) To the purchase of Eemergency Vehicles where the Public Safety Department concludes, after consultation with the City Administrator, that the purchase of a complying vehicle is not feasible or would otherwise unduly interfere with the Department's public safety mission.
- (2) To the acquisition of buses by the San Francisco Municipal Transportation Authority for public transportation purposes.
- (3) To any purchase necessary to respond to an emergency that meets the criteria set in Administrative Code Sections 21.15(a) or 6.60. In such cases, the department shall, to the extent feasible under the circumstances, acquire the noncomplying vehicles only for a

term anticipated to meet the emergency need. Any City department invoking this exemption shall promptly notify the City Administrator, in writing, of the purchase and the emergency that prevented compliance with this section.

(4)—At any time, up to 10 percent of the total Light Duty Passenger Vehicle fleet may be exempted from the requirements of Section 404(a)(2) if the alternate vehicles are Plug-In Hybrid Electric Vehicles instead.

— (5) Wherever the purchase of a passenger vehicle or light-duty truck is exempt from the requirements of this section, City departments and officials shall select a vehicle with as low emissions and high efficiency ratings as practicable.

Section 3. Effective Date. This ordinance shall become effective 30 days after enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board of Supervisors overrides the Mayor's veto of the ordinance.

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Section 4. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors intends to amend only those words, phrases, paragraphs, subsections, sections, articles, numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal Code that are explicitly shown in this ordinance as additions, deletions, Board amendment additions, and Board amendment deletions in accordance with the "Note" that appears under the official title of the ordinance.

APPROVED AS TO FORM:

DENNIS J. HERRERA, City Attorney

By:

Deputy City Attorney

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REVISED LEGISLATIVE DIGEST

(5/2/2017, Amended in Board)

[Administrative, Environment Codes - Zero Emission Vehicle Requirements for City Fleet]

Ordinance amending the Administrative and Environment Codes to require that any new passenger vehicle procured for the City fleet be a Zero Emission Vehicle, absent a waiver, and that all passenger vehicles in the City fleet be Zero Emission Vehicles by December 31, 2022; and to encourage selection of Zero Emission Vehicles in other vehicle classes as technology improves.

Existing Law

The City Administrator and Departments are restricted in purchasing motor vehicles considered light duty or passenger in nature to the Vehicle Selector List issued by the City Administrator. Light duty or passenger vehicles include passenger vehicles (generally sedans), light duty trucks, and passenger vans. The purchasing restrictions do not apply when the City Administrator waives the requirements, or the purchase is exempt. The Vehicle Selector List takes into account environmental considerations with the goal of purchasing vehicles that reduce Greenhouse Gas Emissions.

Amendments to Current Law

The City Administrator and Departments will be restricted to only Zero Emission Vehicles when purchasing new passenger vehicles. Light-Duty Passenger Vehicles have been defined to align with federal standards for class 2 vehicles. The definition of Emergency Vehicles has been narrowed to eliminate vehicles used primarily for administrative functions that are not equipped with sirens and lights.

By December 31, 2022, the entire Light-Duty passenger vehicle fleet must transition to consist of entirely Zero Emission Vehicles, unless there is a waiver, exemption, or exception present in Chapter 4 of the Environment Code. Light duty trucks and passenger vans will not be required to be Zero Emission Vehicles, but as technology improves, selection of Zero Emission Vehicles will be encouraged.

The purchasing restrictions do not apply when the City Administrator waives the requirements, and departments do not need to submit waivers on a purchase by purchase basis. Some purchases are exempt from the Zero Emission Vehicle requirements, such as Emergency Vehicles. The purchase requirements of Zero Emission Vehicles for service as Light Duty passenger vehicles may be waived partially for vehicles that are parked on City owned lots; up to 25% of that fleet can be comprised of Plug-In Hybrid Vehicles in lieu of Zero Emission Vehicles if a waiver is granted. The purchase requirements of Zero Emission Vehicles for service as Light Duty passenger vehicles may be waived for vehicles that are parked on non-

BOARD OF SUPERVISORS Page 1

City owned lots; the purchased vehicles can instead be Plug-In Hybrid Vehicles in lieu of Zero Emission Vehicles if there is a lack of charging infrastructure and a waiver is granted. New guidance has been added to provide for ongoing coordination between the City Administrator and OEWD on training for maintenance of both Alternative Fuel and Zero Emissions Vehicles. The ordinance clarifies the roles of the Planning Department and Department of the Environment in that, prior to purchase, they conduct a top-level analysis of Fleet Optimization, that accurately weighs new vehicles in light of the Transit-First policy and all of the City's investment in transit and bike improvements.

Background Information

To be considered a Zero Emission Vehicle ("ZEV"), the vehicle must be defined as such by the California Air Resources Board. Generally, this requires that a vehicle produce no emissions from the on-board source of power.

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CITY AND COUNTY OF SAN FRANCISCO BOARD OF SUPERVISORS

BUDGET AND LEGISLATIVE ANALYST

1390 Market Street, Suite 1150, San Francisco, CA 94102 (415) 552-9292 FAX (415) 252-0461

May 1, 2017

TO:

Members of the Board of Supervisors

FROM:

Budget and Legislative Analyst's Office

SUBJECT:

May 2, 2017 Board of Supervisors Meeting

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5	17-0210	Administrative, Environment Codes – Zero Emission Vehicle Requirements for City Fleet	

MANDATE STATEMENT

According to Charter Section 2.105, all legislative acts shall be by ordinance and require the affirmative vote of at least a majority of the members of the Board of Supervisors.

BACKGROUND

In 2010, the Board of Supervisors approved the Healthy Air and Clean Transportation Program (HACTO), which required that each City department reduce the City's vehicle fleet by 5% of the existing non-safety, passenger and light duty vehicles annually over a 5-year period, and reduce the vehicles over 12 years of age, with specific waivers permitted. On July 15, 2015, the Board of Supervisors approved an ordinance (File 14-0950) amending the City's Environment and Administrative Codes to (a) transfer responsibility for fleet management and vehicle selection for HACTO from the Department of the Environment to the Office of the City Administrator, (b) replace the City's mandatory vehicle reduction requirements with policies to optimize the size and use of the City's vehicles, (c) use technology to promote the safe and environmentally-friendly use of vehicles and (d) reduce average per-mile greenhouse gas emissions from the City's vehicles. These Code amendments specified a reduction in gas emissions of four percent by the end of fiscal year 2017, and 15 percent by the end of fiscal year 2021.

The ordinance also required a report reviewing the implementation of these policies after one year, which was submitted to the Board of Supervisors on November 30, 2016. Contrary to the objective of reducing vehicles, this review found that in the six-year period between FY 2010-11 when HACTO was approved and FY 2015-16, the number of City light-duty vehicles increased from 2,650 to 2,743, an increase of 93 vehicles or 3.5%. The Office of the City Administrator plans to issue a follow-up report in the fall of 2017 regarding the reductions in greenhouse gas emissions from City vehicles.

The City Administrator is currently responsible for implementing and administering HACTO, in consultation with the Director of the Department of the Environment, and for promulgating appropriate rules, regulations and guidelines for such implementation. All City departments are currently restricted to using the Vehicle Selector List² issued by the City Administrator when purchasing sedans, light duty pickup trucks, and vans with a gross vehicle weight under 8,500 pounds.

¹ All vehicles less than 8,500 pounds.

² The Vehicle Selector List is a document issued by the City Administrator, in consultation with the Department of the Environment, which provides emissions data for light-duty passenger vehicles, light-duty trucks and vans less than 8,500 gross pounds. The Vehicle Selector List is compliant with the Healthy Air and Clean Transportation Ordinance (HACTO) and takes into account environmental considerations with the goal of reducing greenhouse gas emissions.

- (d) Up to 10% of the total light duty passenger vehicle fleet may be exempted from these requirements if the alternate vehicles are Plug-in Hybrid Electric Vehicles and
- (e) If exempt from the requirements, a vehicle is selected with as low emissions and high efficiency ratings as practicable.

Administrative Code Amendments

The proposed ordinance would also amend the City's Administrative Code to require that all light duty vehicles in the City's fleet be ZEVs by December 31, 2022. Light duty vehicles are not specifically defined in the proposed ordinance but as noted above, Light-Duty Passenger Vehicles and Light-Duty Trucks are defined in the ordinance. Therefore the proposed ordinance should be amended on page 1, line 21 to insert the word "passenger" to clarify in the City's Administrative Code that all light duty "passenger" vehicles in the City's fleet must be ZEV by 2022, as proposed in the definitions and provisions in the Environment Code.

Without the above-noted amendment to the proposed ordinance, the Administrative Code would require all light duty vehicles in the City's fleet to be ZEVs and does not provide an automatic exemption for light duty trucks, Sport Utility Vehicles (SUVs) or passenger vans. However, there currently is no ZEV light duty truck, SUV or passenger van option for lease or purchase on the market. According to Mr. Bruce Robertson, Finance Manager at the Department of Public Works, Public Works received a quote from a vendor regarding the costs to retrofit a light duty truck or passenger van to become a plug-in hybrid for \$95,690 per vehicle. However, such an option would still not be compliant with the proposed ordinance.

Therefore, the following fiscal impact analysis assumes the proposed ordinance is amended, as recommended by the Budget and Legislative Analyst.

FISCAL IMPACT

Number of Light Duty Passenger Vehicles

As of March 2017, the City leased and owned a total of approximately 5,876 vehicles across all City departments. The total 5,876 vehicles include buses, tractors, and heavy duty trucks and light duty trucks which would be exempt under the proposed amended ordinance. The proposed ordinance also provides exemptions for emergency patrol vehicles, which are estimated at 252 vehicles. Excluding emergency patrol vehicles, there are an estimated total of 1,334 City light duty passenger vehicles as shown in Table 1 below.

vehicles, and the 15 plug-in hybrids from the total 1,334 vehicles, results in a balance of 735 passenger vehicles that at a minimum would be subject to the proposed ordinance.

Based on fleet utilization statistics the Department of the Environment estimates that at least 126 underutilized City's light duty passenger vehicles could be retired without replacement over the next six years. However, as noted above, the City's fleet actually increased by 93 vehicles between FY 2010-11 and FY 2015-16 when HACTO required 5% reductions in the fleet size. While reductions in the City's light duty passenger vehicle fleet could potentially lead to significant environmental and cost savings in the future, given the historical precedents, no reductions in the passenger vehicle fleet size are assumed in this analysis.

Cost of Purchasing Zero Emission Vehicles

Currently there are three main options for ZEVs, including: battery electric vehicles, long-range electric vehicles, and hydrogen fuel cell vehicles. These three types and models, including prices and fuel ranges are summarized in Table 2 below.

Car Make and Model	Price ¹	Fuel Range	
Battery Electric Vehicle (BEV)			
Smart Electric Drive	\$27,500	68 miles	
Ford Focus Electric	32,032	115	
Nissan Leaf	33,748	107	
BMWi3	46,650	114	
Long Range Electric Vehicle		,	
Tesla Model 3	38,500	215	
Chevy Bolt	40,282	238	
Hydrogen Fuel Cell EV ²			
Toyota Mirai	63,250	312	

Table 2: Current Zero Emissions Vehicles on the Market

- 1. Table 2 prices come from the manufacturer's suggested retail price of the product plus ten percent for taxes, fees, and closing costs. These prices are slightly higher than the current Vehicle Selector List, as the current Vehicle Selector List expires in October 2017. New term purchase agreements for bulk purchases of City passenger vehicles will be negotiated by Administrative Services after October 2017 and are not currently available. The prices shown in Table 2 above were developed with Administrative Services, which is responsible for purchasing vehicles for City departments.
- Currently, hydrogen fuel cells can only be fueled at stations at the Airport. Due to its limited fueling capacity, high initial price and expensive fueling cost, the hydrogen fuel cell is not included in our financial analysis.

As noted above, the proposed ordinance would necessitate the replacement of between 735 and 1,283 passenger vehicles with ZEVs by December 2022. Therefore, the total estimated cost of the replacement vehicle procurement would range from \$20,212,500 (735 vehicles x \$27,500)

⁸ According to the Department of the Environment, underutilized vehicles are used 5 or less days per month and should be retired (63 vehicles in total) and that utilization of cars used 6 to 10 days per month should at least be doubled. The 126 vehicles relates to the non-emergency sedan fleet.

Leasing and Rebate Options

As noted above, the City currently leases 22 passenger vehicles, or less than 2% of the City's 1,334 light duty passenger vehicles. According to Mr. Donnelly-Landolt, the City does not typically lease City passenger vehicles because the total cost to lease vehicles is significantly higher than the cost to purchase vehicles as the City generally uses passenger vehicles for an average of ten years, before selling the vehicles at auction.

The City has participated in multiple rebate and grant programs for eligible ZEV and charger purchases, including the Public Fleet Pilot Project, CA Clean Air Rebate, Metropolitan Transportation Commission EV Grant. In addition, the State of California currently has a California Vehicle Rebate Program (CVRP) that offers up to \$2,500 per vehicle purchased or leased, for up to 30 fleet vehicle purchases per municipal government annually. Additionally, the Federal Government has a \$7,500 federal tax credit accessible only through leasing of vehicles. However, the City is not directly eligible for the Federal tax credit, as the City does not file federal tax returns with itemized deductions. Assuming the City participates in the State program to receive \$2,500 per vehicle for 30 vehicles per year, the City could receive an estimated \$75,000 in revenue from the State.

Cost of operating vehicles

According to the Department of Environment, the cost per mile to fuel an electric vehicle is significantly less expensive than gas vehicles. Without factoring in the cost of the vehicles, maintenance or infrastructure, the Department of Environment reports that the City's current fleet costs an average of 20 cents per mile to fuel and the average cost per mile for ZEVs would be 2.5 cents per mile. According to the Idaho National Laboratory, the average cost for gas cars is 15.9 cents per mile, for gas hybrid cars is 7.8 cents per mile, and for electric cars is 3.3 cents per mile. However, there are several other electric fueling cost issues to consider. For example, tiered pricing can significantly increase the cost of electricity charging bills on leased property. As half of the passenger vehicles currently owned by the City are reported to be parked on leased premises, the issue of tiered pricing must be considered when calculating potential electric costs for powering the City's ZEVs. However, the location and ownership of all

which is well above the average reported by the Office of the City Administrator of \$1,242 over the past five years. As the City would be selling City vehicles with remaining useful life before they would normally be sold, this appears reasonable.

According to Mr. Lars Peters, Executive Mayoral Fellow at the Department of the Environment, the CVRP annual cap applies per public fleet 'entity' and therefore each City department may be able to apply for up 30 cars.

¹³ In addition, SB1 recently approved by the State of California will impose additional \$0.12 per gallon on gasoline with annual inflation adjustment, new Vehicle License Fees between \$25 and \$175 based on the vehicle value and a new \$100 annual vehicle registration fee for ZEVs beginning in 2020.

https://avt.inl.gov/sites/default/files/pdf/fsev/costs.pdf

¹⁵ In tiered-pricing, the rate plan often has different pricing levels, known as "tiers," based on how much energy is used. The first and lowest-priced tier is the baseline allowance, and the charges per kilowatt hour increase as the amount of energy use increases.

¹⁶ According to Mr. David Worthington, Fleet Manager at the County of Sonoma, the increase has been reported to be between \$30,000 and \$60,000 per month.

chargers at an estimated cost between \$10,608,000 and \$19,376,000²¹ over the next five and a half years.

These costs do not assume compliance with the American with Disabilities Act (ADA). According to Ms. Nicole Bohn, Director of the Mayor's Office on Disability, the current California Building Code provides an exemption from ADA for charging stations used exclusively for City vehicles. However, San Francisco employees with disabilities who need accommodation consideration may engage in a reasonable accommodation process. The costs could increase if some of the spaces are made compliant with ADA.²²

Additionally, if the electric chargers are installed adjacent to older buildings or a large concentration of ZEVs are parked in one facility a new electric breaker panel will likely be required to handle the extra electrical load.²³ This could result in significant costs that cannot be estimated at this time, as the location of the vehicles and the existing electrical capacity at each location is not currently known.

Charger maintenance, repair and analytics

In addition to charger installation and electricity charging costs, chargers require maintenance and repair. Sonoma County reports needing to replace electric chords and station heads at charging stations for an average cost of approximately \$335 per year per station, ²⁴ although these costs vary significantly and therefore are difficult to project. There are also ongoing costs associated with level-two smart chargers, including annual subscription costs for software. Smart chargers use internet connectivity to gather information and adapt the electric vehicle charging to incur preferred rates. The City currently has a contract for its level-two smart chargers with ChargePoint, Inc., at a rate of \$255 per charger per year. ²⁵ Based on an estimated between 786 and 1,334 chargers and assuming a rate of \$255 per year, this results in total annual costs of between \$200,430 to \$340,170 per year.

Estimated Initial and Annual Costs

In the Budget and Legislative Analyst's previous report to the Budget and Finance Sub-Committee of April 20, 2017, the total costs to purchase vehicles and install chargers was estimated at between \$31,048,500 and \$95,139,500. As shown in Table 4 below, based on the amendments proposed to the ordinance, the total estimated initial cost to purchase between

According to Mr. Connor, the State of California uses the formula of one charger per electric vehicle for planning purposes.

²¹ 786 vehicles (total minimum electric and plug-in hybrids) less 123 existing chargers equal 663 required chargers x \$16,000 equals \$10,608,000 and 1,334 vehicles (see Table 1) less 123 existing chargers equal 1,211 required chargers x \$16,000 equals \$19,376,000.

²² According to Mr. Worthington and Mr. Connor, ADA compliance significantly increases the average cost per charger by approximately \$25,000.

²³ According to Mr. Peters, whether the electrical supply would need to be upgraded requires further study and a value engineering approach specific to fleet use.

According to Mr. Peters, our ongoing cost estimates may have been more typical to the first generation chargers. No estimates were provided for newer generations of chargers.

²⁵ This is comparable to the current rate paid by the State of California.

• The City owns a number of grant-funded vehicles and may not be able to replace these vehicles by the ordinance's deadline due to grant requirements.

Operational Concerns

- Fully electric vehicles purchased in order to pursue the proposed ZEVs ordinance would limit the City's ability to respond to a disaster. Electric vehicles provide a limited travel range before needing to recharge, which can take ten hours or more. Partial Electric Vehicles and hybrid vehicles provide more flexibility for long distance travel and rapid refueling during a disaster.
- Central Shops has limited capacity to support ZEVs and charger maintenance and repairs and currently has few staff who can work on ZEVs. With fewer combustion engine sedans, the need for maintenance and repairs on these vehicles would decrease. Central Shops may need to outsource maintenance and repairs on ZEVs and associated infrastructure unless existing employees can be retrained to handle electric vehicles. According to Mr. Donnelly-Landolt, current outsourcing of ZEVs takes approximately three weeks, as there are a limited number of certified dealerships and mechanics to work on ZEV. There may be increased costs due to the need for training of current City employees.
- The City is currently relocating Central Shops to recently leased City property in the southern part of the City, at considerable expense. The proposed ZEVs requirements will need to be included in the planning, design and construction of this new Central Shops facility.
- It is not known whether Public Works has the capacity to plan, design and implement the installation of all the required level-two electric chargers and related infrastructure.
- On average, City employees park 300 vehicles on the street or away from the City's parking facilities overnight. With ZEVs, all vehicles would need to park at City parking facilities overnight to receive the necessary electric charging.

City Priorities

- The City currently has 638 gas hybrid vehicles, which are more efficient than gas only vehicles, representing almost one-half of the City's existing fleet of passenger vehicles. According to Mr. Donnelly-Landolt, the average useful life of a City vehicle is approximately eight to 12 years. Therefore, the proposed ordinance would result in the early replacement of 536 gas hybrid vehicles.
- San Francisco City Charter Section 8A.100 requires that all City Departments pursue a
 Transit-First Policy. Transit-First states that the City should advocate travel within San
 Francisco by public transit, bicycle and on foot as an attractive alternative to travel by
 individual automobiles. According to Mr. Lee, any policy regarding the replacement of
 passenger vehicles should ensure consistency with the goals of Transit-First.

RECOMMENDATIONS

- 1. Amend the proposed ordinance on page 1, line 21 to insert the word "passenger" to clarify in the City's Administrative Code that all light duty "passenger" vehicles in the City's fleet must be Zero Emission Vehicles by 2022, to be consistent with the definitions and provisions in the Environment Code.
- 2. Approval of the proposed ordinance, as amended, is a policy decision for the Board of Supervisors.

Item 4	Department:	
File 17-0210	Office of the City Administrator	

EXECUTIVE SUMMARY

Legislative Objectives

Ordinance amending the City's Administrative and Environment Codes to require that any
new passenger vehicles and light duty trucks procured for the City fleet be a Zero Emission
Vehicle, such that all light duty vehicles in the City's fleet are Zero Emission Vehicles by
December 31, 2020, unless a waiver is obtained, and encouraging selection of Zero
Emission Vehicles in other vehicle classes as technology improves.

Key Points

- A Zero Emission Vehicle is a vehicle that produces no emissions from the on-board source of power, as determined by the California Air Resources Board.
- The ordinance provides exemptions for (a) emergency vehicles if the purchase of Zero Emission emergency vehicles is not feasible or would otherwise interfere with the department's public safety mission, (b) Municipal Transportation Authority buses, (c) response to emergency needs, and (d) If exempt from the requirements, a vehicle is selected with as low emissions and high efficiency ratings as practicable.

Fiscal Impact

- This ordinance would necessitate the replacement of between 759 and 1,550 existing passenger vehicles with Zero Emissions Vehicles by December 2020 at a total cost of between \$20,872,500 (759 vehicles x \$27,500 per vehicle for the Smart Electric Drive) to \$72,307,500 (1,550 vehicles x \$46,650 for the BMWi3) over the next two and a half years.
- The average cost of installing a level-two charger is \$16,000. To install between 636 and 1,427 chargers will cost between \$10,176,000 and \$22,832,000.
- The total estimated initial cost to purchase between 759 and 1,550 new electric passenger vehicles and install between 636 and 1,427 electric chargers would range from \$31,048,500 to \$95,139,500. Additional costs would be incurred for the operation, maintenance and replacement of the electric vehicles and charging stations.

Policy Consideration

• There are various policy and implementation issues to consider with the proposed ordinance, including the (a) expedited 2020 deadline, (b) lease and grant unknowns, (c) issues arising from operational needs and (d) aligning of City goals.

Recommendation

Approval of the proposed ordinance is a policy decision for the Board of Supervisors.

MANDATE STATEMENT

According to Charter Section 2.105, all legislative acts shall be by ordinance and require the affirmative vote of at least a majority of the members of the Board of Supervisors.

BACKGROUND

All City departments are restricted to using the Vehicle Selector List¹ issued by the City Administrator when purchasing sedans, light duty pickup trucks, and vans with a gross vehicle weight under 8,500 pounds.

On July 15, 2015, the Board of Supervisors approved an ordinance (File 14-0950) amending the City's Environment and Administrative Codes to provide for a reduction in average per-mile greenhouse gas emissions from the City's light duty trucks or passenger vehicles. These Code amendments specified a reduction in gas emissions of four percent by the end of fiscal year 2017, and 15 percent by the end of fiscal year 2021. The ordinance also included a review of the implementation of these policies after one year, which was submitted to the Board of Supervisors on November 30, 2016.

DETAILS OF PROPOSED LEGISLATION

The proposed ordinance would amend the City's Administrative and Environment Codes to require that any new passenger vehicles and light duty trucks procured for the City fleet be a Zero Emission Vehicle, such that all light duty vehicles² in the City's fleet are Zero Emission Vehicles by December 31, 2020, unless a waiver is obtained. Such waivers could be granted by the City Administrator if

- (a) There is no passenger vehicle or light duty truck approved by the Vehicle Selector List that meets all applicable safety standards and requirements,
- (b) The passenger vehicle or light duty truck will be used primarily outside the geographic boundaries of San Francisco, or
- (c) The common intended use for the vehicle is to regularly travel more than 100 miles without access to an electric charging station.

The proposed ordinance would also amend the City's Environment Code to encourage the selection of Zero Emission Vehicles in other vehicle classes, as technology improves. In accordance with the proposed ordinance, a Zero Emission Vehicle is a vehicle that produces no emissions from the on-board source of power, as determined by the California Air Resources Board.

The proposed ordinance also provides exemptions for

SAN FRANCISCO BOARD OF SUPERVISORS

BUDGET AND LEGISLATIVE ANALYST

¹ The Vehicle Selector List is a document issued by the City Administrator, in consultation with the Department of the Environment. The Vehicle Selector List is compliant with the Healthy Air and Clean Transportation Ordinance (HACTO) and takes into account environmental considerations with the goal of reducing greenhouse gas emissions.

² Light duty vehicles are not defined in the proposed legislation but appear to include passenger vehicles, sedans and light duty trucks.

- (a) Emergency vehicles if the public safety department purchasing the vehicles concludes, after consultation with the City Administrator, that the purchase of Zero Emission emergency vehicles is not feasible or would otherwise interfere with the department's public safety mission,
 - (b) San Francisco Municipal Transportation Authority buses,
 - (c) Response to emergency needs, and
- (d) If exempt from the requirements, a vehicle is selected with as low emissions and high efficiency ratings as practicable.

FISCAL IMPACT

New Vehicle Purchases and Leases

As of March 2017, the City leased and owned a total of approximately 5,876 vehicles across 70 City departments. Of the total 5,876 vehicles, which include buses, tractors, and heavy duty trucks, 2,778 are light duty vehicles that would be impacted by the proposed ordinance.

The proposed ordinance specifically changes the Administration Code to require all light duty vehicles in the City fleet to be Zero Emission Vehicles in compliance with Environment Code Section 404, and does not provide an automatic exemption for light duty trucks, Sport Utility Vehicles (SUVs) or passenger vans. However, there currently is no Zero Emission Vehicle light duty truck, SUV or passenger van option for lease or purchase on the market. According to Mr. Bruce Robertson, Finance Manager at the Department of Public Works, Public Works received a quote from a vendor regarding the costs to retrofit a light duty truck or passenger van to become a plug-in hybrid for \$95,690 per vehicle. However, such an option would still not be compliant with the proposed ordinance.

If exemptions were provided for light duty trucks, SUVs and vans, the proposed ordinance would still apply to the City's 1,586 passenger vehicles, of which only 36 are currently electric. Table 1 below shows the total 1,586 passenger vehicles and their corresponding City departments.

Table 1: Passenger Vehicles by Department

	Compressed				Plug-in	
Department	natural gas	Electric	Gasoline	Hybrid	hybrid	Total
Airport	14		44	39	1	98
Building Inspection	23	10	2	69	3	107
Courts ³	7		53	38		98
Public Works	7	10	3	71	5	96
Fire			25	49		74
General Services Agency		5	3	18	2	28
Health	27		15	36		78
Human Services	3	2	6	54		65
Library		2		1	1	4
Muni	5		52	67		124
Other	1		4	10		15
Police	8		509	46		563
Port		1	4	12		17
Public Utilities Commission	7		24	99	3	133
Recreation and Park	8	6		11		25
Sheriff	7		36	13		56
Technology				5		5
Grand Total	117	36	780	638	15	1,586

Given that the City currently has 36 electric vehicles, of the total 1,586 passenger vehicles shown in Table 1 above, the City would need to replace 1,550 passenger vehicles with Zero Emission Vehicles. However, the proposed ordinance allows public safety departments with emergency vehicles to apply for exemptions on a case-by-case basis if the purchase of Zero Emission emergency vehicles is not feasible, would otherwise interfere with the department's public safety mission or to respond to emergency needs. If all potential public safety departments applied for and received such exemptions, this could include up to 791 passenger vehicles⁴, resulting in a balance of 759 passenger vehicles that at a minimum would be subject to the proposed ordinance.

Currently there are three main options for Zero Emission Vehicles, including: battery electric vehicles, long-range electric vehicles, and hydrogen fuel cell vehicles. These three types and models, including prices and fuel ranges are summarized in Table 2 below.

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³ Court vehicles include District Attorney, Public Defender, Juvenile Probation and Adult Probation.

⁴ 98 passenger vehicles in the Courts, 74 passenger vehicles in the Fire Department, 56 passenger vehicles in the Sheriff's Department, and 563 passenger vehicles in the Police Department.

Car Make and Model	Price ¹ Fuel Range	
Battery Electric Vehicle (BEV)		
Smart Electric Drive	\$27,500	68 miles
Ford Focus Electric	32,032	100
Nissan Leaf	33,748	107
BMWi3	46,650	114
Long Range Electric Vehicle		
Tesla Model 3	38,500	200
Chevy Bolt	40,282	238
Hydrogen Fuel Cell EV ²		
Toyota Mirai	63,250	312

Table 2: Current Zero Emissions Vehicles on the Market

- 1. The prices come from the manufacturer's suggested retail price of the product plus ten percent for taxes, fees, and closing costs.
- 2. Currently, hydrogen fuel cells can only be fueled at stations at the Airport. Due to its limited fueling capacity, high initial price and expensive fueling cost, the hydrogen fuel cell is not included in our financial analysis.

As noted above, the proposed ordinance would necessitate the replacement of between 759 and 1,550 passenger vehicles with Zero Emissions Vehicles by December 2020. Therefore, the total cost of the replacement vehicle procurement would range from \$20,872,500\$ (759 vehicles x \$27,500 per vehicle for the Smart Electric Drive) to \$72,307,500\$ (1,550 vehicles x \$46,650 for the BMWi3) over the next two and a half years.

As the City would need to replace between 759 to 1,550 passenger vehicles with such electric vehicles by December 2020, it is anticipated that the City would sell or terminate leases on its existing fleet of passenger vehicles. According to Mr. Wyatt Donnelly-Landolt, Senior Budget and Planning Analyst in the City Administrator's Office, the City usually replaces and then sells between 75 and 100 vehicles per year. It is possible that increasing the number of vehicles sold by the City in a given year would decrease the future sales price of each vehicle as the vehicles flood the market. The revenue realized from such vehicle sales has not been calculated because of the uncertainty under these conditions to predict the sale price and the number of leases on vehicles to be terminated. However, these revenues would offset a portion of the new electric vehicle purchase cost.

Charger Purchase and Installation

In addition to replacing between 759 to 1,550 existing City vehicles with Zero Emissions Vehicles, the City will also have to install electric vehicle infrastructure for charging the entire passenger fleet. The City currently has 249 level-two chargers.⁵ However, these chargers are not evenly distributed throughout the City. According to Mr. Derrick Leung, Retail Services at the San Francisco Public Utilities Commission, 120 of the City's 249 electric chargers are located

⁵ There are three levels of chargers available for Zero Emission Vehicles. The first is level-one, and requires 7 to 29 hours to charge a single car. A level-two charger supplies 240V and averages from 2-10 hours to charge a single vehicle. A level-three charger is a fast-charge and can charge an entire car in about 30 minutes. According to Mr. Donnelly-Landolt, a fully electric vehicle requires a level-two or level-three chargers for practical use.

at the Airport for public use, and an additional six chargers are located on Treasure Island. Therefore, the City only has 123 chargers (249 less 126) currently located within the City proper.

According to Mr. Donnelly-Landolt, the average cost of installing a level-two charger is \$16,000.⁶ As most City vehicles are used during the day, it is assumed that each vehicle would need to be fully charged overnight while the vehicle is parked. If every vehicle had access to a level-two charger, the City would need to install between 636 and 1,427 chargers at an estimated cost between \$10,176,000 and \$22,832,000 over the next two and a half years.

Total Initial Costs

The total estimated initial cost to purchase between 759 and 1,550 new electric passenger vehicles and install between 636 and 1,427 electric chargers would range from \$31,048,500 (759 Smart Electric Cars, 636 chargers) to \$95,139,500 (1,550 BMWi3 and 1,427 chargers). These costs would be incurred between the effective date of the proposed ordinance, or 30 days after approval of the subject ordinance, through December 2020, a period of approximately 2.5 years.

Ongoing Costs

Additional costs would be incurred for the operation, maintenance and replacement of the electric vehicles and charging stations, although the amount of such annual costs cannot be estimated at this time.

POLICY CONSIDERATION

There are various implementation issues to consider with the proposed ordinance.

Issues arising from the 2020 deadline

- The City currently purchases approximately 100 new passenger vehicles a year. This ordinance would require the purchase or lease of at least approximately 759 vehicles over the next 2.5 years, or at least 304 vehicles per year.
- Market availability may hinder the ability of the City to comply with the expedited 2020 deadline as market share of Zero Emission Vehicles is currently less than one percent nationally. Furthermore, recent City ordinances prohibit the City from entering into contracts with companies based in states that bar civil-rights protections for lesbian, gay, bisexual and transgender people, such as the state of Tennessee which currently produces the Nissan Leaf.
- The City would have to replace a minimum of 759 vehicles in order to meet the goals of the ordinance. Selling this many vehicles within the timeline provided would be challenging and the City may not receive the full value of these vehicles.

SAN FRANCISCO BOARD OF SUPERVISORS

BUDGET AND LEGISLATIVE ANALYST

⁶ According to Mr. Robertson, the Department of Public Works estimates that the installation costs of a level-two charger in an area that already has power capacity, trenched lines, and appropriate conduits is \$13,000.

- The City currently has 653 hybrid or plug-in hybrid vehicles, representing over one-third of the City's existing fleet of passenger vehicles. In addition, 356 of these hybrid or plug-in hybrid vehicles have been purchased in the past five years. According to Mr. Steven Lee, Senior Manager of Finance and Information Technology at the San Francisco Municipal Transportation Agency, the average useful life of a City vehicle is approximately eight years. Therefore, the proposed ordinance would result in the early replacement of 356 hybrid or plug-in hybrid vehicles at potentially significant but unknown cost to the City.
- It is not known whether Public Works has the capacity to plan, design and implement the installation of all the required level-two electric chargers and related infrastructure.

Lease and Grant unknowns

- According to Mr. Donnelly-Landolt, the City leases parking for approximately half of the City's entire fleet of passenger vehicles. As electric vehicles will likely need to be charged daily, the City would need to install charging stations on these leased properties. This may create future unknown issues of trying to install level-two chargers and the related electrical infrastructure on leased land.
- The City owns a number of grant-funded vehicles and may not be able to replace these vehicles by the ordinance's deadline due to grant requirements.

Issues arising from operational needs

- Fully electric vehicles purchased in order to pursue the proposed Zero Emissions Vehicles ordinance would limit the City's ability to respond to a disaster. Electric vehicles provide a limited travel range before needing to recharge, which can take ten hours or more. Partial Electric Vehicles and hybrid vehicles provide more flexibility for long distance travel and rapid refueling during a disaster.
- Central Shops has limited capacity to support Zero Emission Vehicles and charger maintenance and repairs and currently has few staff who can work on Zero Emission Vehicles. With fewer combustion engine sedans, the need for maintenance and repairs on these vehicles would decrease, likely leading to layoffs in Central Shops unless these employees can be retrained to maintain Zero Emission Vehicles. In place of current employees, Central Shops may need to outsource maintenance and repairs on Zero Emission Vehicles and associated infrastructure unless existing employees can be retrained to handle electric vehicles. According to Mr. Donnelly-Landolt, current outsourcing of Zero Emission Vehicles takes approximately three weeks, as there are a limited number of certified dealerships and mechanics to work on Zero Emission Vehicle.
- The City is currently relocating Central Shops to recently purchased City property in the southern part of the City, at considerable expense. The proposed Zero Emission Vehicles requirements have not been included in the planning, design and construction of this new Central Shops facility.
- Some departments use vehicles for occasional long-distance travel. These vehicles are not currently sorted or determined to be long-range vehicles. Zero Emission Vehicles

- would not meet this operational requirement, and employees would have to use personal or rental vehicles at higher costs.
- Employees sometimes park vehicles on the street or away from the City's parking facilities overnight. With Zero Emission Vehicles, all vehicles would need to park at City parking facilities overnight to receive the necessary electric charging.

Issues arising from aligning City goals

San Francisco City Charter Section 8A.100 requires that all City Departments pursue a
Transit-First Policy. Transit-First states that the City should advocate travel within San
Francisco by public transit, bicycle and on foot as an attractive alternative to travel by
individual automobiles. According to Mr. Lee, any policy regarding the replacement of
passenger vehicles should ensure consistency with the goals of Transit-First.

RECOMMENDATION

Approval of the proposed ordinance is a policy decision for the Board of Supervisors.

BOARD of SUPERVISORS



City Hall

1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

MEMORANDUM

TO:

Ben Rosenfield, City Controller, Office of the Controller

Naomi Kelly, City Administrator, Office of the City Administrator

Vicki Hennessy, Sheriff, Sheriff's Department William Scott, Police Chief, Police Department Joanne Hayes-White, Fire Chief, Fire Department

Deborah Raphael, Director, Department of the Environment

Dr. Michael Hunter, Chief Medical Examiner, Office of the Chief Medical

Examiner

Virginia Donohue, Director, Department of Animal Care and Control Ed Reiskin, Executive Director, San Francisco Municipal Transportation

Agency

FROM:

Erica Major, Assistant Clerk, Government Audit and Oversight Committee,

Board of Supervisors

DATE:

March 7, 2017

SUBJECT:

LEGISLATION INTRODUCED

The Board of Supervisors' Government Audit and Oversight Committee has received the following proposed legislation, introduced by Supervisor Tang on February 28, 2017:

File No. 170210

Ordinance amending the Administrative and Environment Codes to require that any new passenger vehicle procured for the City fleet be a Zero Emission Vehicle, absent a waiver, and that all passenger vehicles in the City fleet be Zero Emission Vehicles by December 31, 2020; and to encourage selection of Zero Emission Vehicles in other vehicle classes as technology improves.

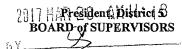
If you have any comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

Government Audit and Oversight Committee Referral March 7, 2017 Page 2

c: Todd Rydstrom, Office of the Controller
Theodore Toet, Sheriff's Department
Katherine Gorwood, Sheriff's Department
Eileen Hirst, Sheriff's Department
Rowena Carr, Police Department
Kristine Demafeliz, Police Department
Kelly Alves, Fire Department
Guillermo Rodriguez, Department of the Environment
Christopher Wirowek, Office of the Chief Medical Examiner
Janet Martinsen, San Francisco Municipal Transportation Agency
Kate Breen, San Francisco Municipal Transportation Agency
Dillon Auyoung, San Francisco Municipal Transportation Agency

RECENTED

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Tel. No. 554-7630
Fax No. 554-7634
TDD/TTY No. 544-5227

London Breed

	PRESIDENTIA	L ACTION	
•			÷
Date: 3	-21-2017		
To: A	ngela Calvillo, Clerk of the Boa	rd of Supervisors	
Madam Clerk		-	
Pursuant to B	oard Rules, I am hereby:		
☐ Waiving 3	30-Day Rule (Board Rule No. 3.23)	•	
File No).		
Title.		(Primary Sponsor)	
Tiue.			
	ng (Board Rule No 3.3)		•
· File N	o. <u>170210</u>	Tang (Primary Sponsor)	
Title.	Administrative, Environment (, ,, ,	Vahiala
	Requirements for City Fleet		Veincie
From:	Land Use & Transportation		_Committee
To:	Budget & Finance		_Committee
☐ Assigning	Temporary Committee Appoin	ntment (Board Rule No. 3.1)	
Super	visor		
Replac	ing Supervisor		
For:			Meeting
,	(Date)	(Committee)	
			0
			Drood

London Breed, President Board of Supervisors

BOS-11, GAO, COB LNI LES OUP., Depara mayors

President, District 5
BOARD of SUPERVISORS



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-7630
Fax No. 554-7634
TDD/TTY No. 544-5227

London Breed

. •	PRESIDENTIA	L ACTION	
Date:	March 13, 2017		
To:	Angela Calvillo, Clerk of the Boa	ard of Supervisors	
Madam Cl	lerk,		
Pursuant t	to Board Rules, I am hereby:	•	
	Waiving 30-Day Rule (Board Rule N	o. 3.23)	
	File No.		80 g
	Title.	(Primary Sponsor)	SALLE SALLE
\boxtimes	Transferring (Board Rule No. 3.3)		一种一种
	File No. 170210	Tang	PH12: 2
	Title. Zero Emission Vehicle	(Primary Sponsor) Requirements for City	2: 26
	From: Government Audit &	Oversight	_ Committee
	To: Land Use & Transport	tation	_Committee
	Assigning Temporary Committee	e Appointment (Board R	ule No. 3.1)
	Supervisor	·	
	Replacing Supervisor		
	For:		Meeting
	(Date)	(Committee)	
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London Breed, President Board of Supervisors Print Form

Introduction Form ARD OF SUPER VISIONS

By a Member of the Board of Supervisors or the Mayor

2017 FEB 28 PM 4: 574me stamp
I hereby submit the following item for introduction (select only one): Y Or meeting date Or me
□ 1. For reference to Committee.
An ordinance, resolution, motion, or charter amendment.
2. Request for next printed agenda without reference to Committee.
3. Request for hearing on a subject matter at Committee.
4. Request for letter beginning "Supervisor inquires"
☐ 5. City Attorney request.
6. Call File No. from Committee.
7. Budget Analyst request (attach written motion).
8. Substitute Legislation File No.
9. Request for Closed Session (attach written motion).
☐ 10. Board to Sit as A Committee of the Whole.
11. Question(s) submitted for Mayoral Appearance before the BOS on
Places about the environmenta haves. The proposed logislation should be forwarded to the following.
Please check the appropriate boxes. The proposed legislation should be forwarded to the following: Small Business Commission Youth Commission Ethics Commission
☐ Planning Commission ☐ Building Inspection Commission
Note: For the Imperative Agenda (a resolution not on the printed agenda), use a Imperative
Sponsor(s):
Supervisor Katy Tang, Furell
Subject:
Administrative Codes - Zero Emission Vehicle Requirements for City Fleet
The text is listed below or attached:
Please see attached.
Signature of Sponsoring Supervisor:
For Clerk's Use Only:

170210

Major, Erica (BOS)

From: Major, Erica (BOS)

Sent: Tuesday, March 07, 2017 9:54 AM

To: Rosenfield, Ben (CON); Kelly, Naomi (ADM); Hennessy, Vicki (SHF); Scott, William (POL);

Hayes-White, Joanne (FIR); Raphael, Deborah (ENV); Donohue, Virginia (ADM); Reiskin,

Ed (MTA)

Cc: Rydstrom, Todd (CON); Toet, Theodore (SHF); Gorwood, Kathy; Hirst, Eileen (SHF); Carr,

Rowena (POL); Demafeliz, Kristine (POL); Alves, Kelly (FIR); Rodriguez, Guillermo (ENV); Wirowek, Christopher (ADM); Martinsen, Janet (MTA); Breen, Kate (MTA); 'Auyoung,

Dillon'

Subject: REFERRAL FYI (170210) Administrative, Environment Codes - Zero Emission Vehicle

Requirements for City Fleet

Attachments: 170210 FYI.pdf

Greetings:

This matter is being forwarded to your department for informational purposes. If you have any comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

Thank you for your attention.

ERICA MAJOR

Assistant Clerk

Board of Supervisors

1 Dr. Carlton B. Goodlett Place, City Hall, Room 244 San Francisco, CA 94102

Phone: (415) 554-4441 | Fax: (415) 554-5163 <u>Erica.Major@sfgov.org</u> | <u>www.sfbos.org</u>



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Disclosures: Personal information that is provided in communications to the Board of Supervisors is subject to disclosure under the California Public Records Act and the San Francisco Sunshine Ordinance. Personal information provided will not be redacted. Members of the public are not required to provide personal identifying information when they communicate with the Board of Supervisors and its committees. All written or oral communications that members of the public submit to the Clerk's Office regarding pending legislation or hearings will be made available to all members of the public for inspection and copying. The Clerk's Office does not redact any information from these submissions. This means that personal information—including names, phone numbers, addresses and similar information that a member of the public elects to submit to the Board and its committees—may appear on the Board of Supervisors website or in other public documents that members of the public may inspect or copy.