County of Los Angeles
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"To enrich lives through effective and caring service"

March 3, 2014

To: Each Supervisor

From: Jim Jones
Director

Subject: **ANNUAL CLEAN FUELS REPORT**

The Board of Supervisor's "Clean Fuels" policy was adopted on January 10, 1995. The policy requires that by March 1st of each year, departments report on the composition of their fleet and their progress toward acquiring clean fuel vehicles.

The attachment provides the Internal Services Department's (ISD's) report for calendar year 2013, which includes data on all of the County departments and vehicles for which ISD provides automotive services. County departments that maintain their own vehicles (Sheriff, Public Works, and Fire) will report separately.

The ISD-maintained motor vehicle fleet includes 3,830 vehicles, of which 803 (21%) are alternative fuel vehicles (AFVs). Passenger vehicles in the ISD-maintained fleet total 1,178, of which 586 (49.7%) are AFVs, and include hybrid, electric, natural gas, bi-fuel, flex-fuel and propane. Also reflected is information captured to date on certified low emission vehicles (LEVs), ultra-low emission vehicles (ULEV's), and super ultra-low emission vehicles (SULEVs) as defined by the California Air Resources Board (CARB).

Hybrid Vehicles

ISD continued to assist County departments and employees with the acquisition of AFVs in support of the County's Clean Fuels policy, including:

- The acquisition of 15 additional hybrid sedans on behalf of County departments for calendar year 2013.
- The Vehicle Purchasing Services Program provides County employees pre-negotiated pricing for hybrid and alternative fuel vehicles. Updated pricing on 2014 models is currently in process. The total number of hybrid vehicles purchased by County employees under this program thus far is 359.

Your Board amended the Clean Fuels Policy in December 2005, which effectively made the hybrid or other alternative fueled vehicles as the standard for County operations effective July 2006. Since that time, we have reported the environmental impact in terms of emissions avoidance. The results for calendar year 2013 are as follows:

Items Avoided	Results from Hybrids	Results from CNG and LPG*	Combined Results
Gallons of Petroleum Fuel Avoided	151,660	316,039	467,699
Lbs of CO2 Avoided	2,942,210	3,083,237	6,025,447

*CNG – Compressed Natural Gas; LPG- Liquid Propane Gas

Regulations for Diesel Vehicles/Equipment

ISD maintained 107 diesel vehicles of which 101 were subject to the CARB Public Fleet rule (January 5, 2007, regulations) for the following County departments: Health Services, Parks & Recreation, Beaches & Harbors, Probation, Registrar-Recorder, Agricultural Commissioner, CEO, Coroner, Public Health, Museum of Natural History, Public Library, and ISD.

ISD worked closely with these departments to successfully meet all CARB compliance requirements for affected ISD-maintained fleet vehicles within the required deadlines over a five-year period which concluded with calendar year 2012. Thereafter, public fleets must remain in compliance with these regulations, including annual re-certification of any remaining low usage vehicles. For calendar year 2013, all departments have re-certified their low usage vehicles to retain their low usage exemption status or salvaged the vehicle.

Alternate Fuel Vehicle Initiatives

In support of the California greenhouse gas reduction target to achieve 1990 emission levels by 2020, ISD continues to explore AFVs, pilot new technologies, educate County departments, and recommend/amend the Clean Fuels Program Policy or Vehicle Policy as necessary. In this regard, County initiatives in 2013 included:

- ISD has continued as an active partner in regional collaborative groups of local and regional government agencies, utilities, and universities in Southern California who partner to support and build the necessary infrastructure for the wider commercial availability of electric vehicles. This currently includes Southern California Association of Governments (SCAG) Plug-in Electric Vehicle Coordinating Council and the Los Angeles Economic Development Corporation's e-Mobility Task Force.

- ISD collaborated with County departments to identify 36 County facilities to install 83 electric vehicle charging devices. On March 5, 2013, your Board gave approval to execute grant agreements with South Coast Air Quality Management District (SCAQMD) for $120,000 and Mobile Source Air Pollution Reduction Review Committee for $192,333. Installation of the electric vehicle charging devices is targeted to be completed by the end of Fiscal Year 2013-14.

- Three new compressed natural gas powered heavy duty trucks were received and placed into operations with Parks and Recreation. These units replaced old diesel bucket and dump trucks and will significantly improve air quality by reducing greenhouse gas emissions up to 90%.

- ISD is currently setting-up short-term demonstration tests of two new hybrid vehicles from a manufacturer that is new to the hybrid vehicle market.

ISD also continued to assist other departments with fleet and transportation initiatives, funded by grants and other sources. These efforts included continued assistance to the Sheriff's Department to complete the replacement of 37 of 82 (45%) Sheriff's Prisoner Transportation Buses partially funded by two Carl Moyer Program grants totaling $7 million from South Coast Air Quality Management District. The first 16 buses are in service. Eight additional buses, budgeted for FY 2013-14, were ordered in November 2013 and are scheduled for delivery in June 2014. When complete, the combined emissions from all 37 new buses will produce less particulate matter (soot) and nitrous oxide emissions than just one of the old buses being retired. ISD continues to assist the Sheriff's Department with project management and in fulfilling the technical and reporting terms and conditions of the grants.

ISD Fuel Facilities - Regulation Compliance

ISD operates three fuel facilities, which support daily fueling for all County vehicles and County emergency preparedness. Fuel facilities are regulated by the CARB, the

California Water Board, and the SCAQMD to ensure fuel sites meet equipment standards and control emissions.

ISD fuel facilities are in full compliance with all regulations including the SCAQMD's Enhanced Vapor Recovery (EVR) Phase I (fuel storage) and Phase II (refueling vehicles) which was required for all gasoline dispensing facilities by April 1, 2009. The Mall Garage fuel site was completed in June 2012 following SCAQMD's identification and approval of the required equipment for liquid condensate traps with underground dispensing.

Fuel Management and Controls

ISD's three fuel sites served as the initial County pilot implementation of an automated fuel management and control system (Fuel Focus) which was completed in August of 2010. The objectives of this fuel system are to reduce fuel losses through more accurate dispensing and inventory records, improve interdepartmental fuel availability through shared vehicle information on same software platform, and standardization of fueling system and controls. Below is status of additional County fuel site implementations.

The Sheriff's department completed upgrade to Fuel Focus at 27 of their 29 fuel sites by March 2012. The final two sites are awaiting Sheriff's facilities rehabilitation to allow installation.

The Department of Beaches & Harbors is currently in process of installing Fuel Focus at its seven fuel sites with PIF loan funding from the Quality and Productivity Commission. Three sites have been completed and the remaining sites are expected to be completed by the end of FY 2013-2014.

Public Works Department (DPW) has also expressed interest in converting to the Fuel Focus system and is currently conducting a small pilot of DPW vehicles obtaining fuel at Fuel Focus sites and reviewing available data captured and reports while obtaining quotes for approval. DPW anticipates the conversion timetable for its 41 fuel sites will need to occur in four phases over approximately four years.

The Fire Department is seeking implementation of Fuel Focus controls at their Pacoima facility as the initial pilot fuel site. ISD is preparing cost estimates and a timeline for this pilot program which is expected to be in place during FY 2014-2015.

Compressed Natural Gas (CNG) Fuel Site

In 2000, ISD contracted with Clean Energy Fuels to build, maintain, and operate the public CNG fuel site located at 1055 North Alameda in downtown Los Angeles. Since that time, this CNG site has essentially served as the only public CNG fueling site available to public citizens, the County and City of Los Angeles, other government agencies, utilities and private businesses.

A second contract was competitive bid and awarded in July 2007 to Clean Energy for maintenance and repairs of this CNG fuel station. This contract shall complete all terms by January 28, 2017 if all extensions are utilized.

The CNG station was originally designed to provide adequate fueling support for limited capacity CNG powered vehicles and moderate growth in CNG vehicle usage within the Los Angeles Civic Center area. However, significant advancements in CNG technology applications have been made which include significantly larger vehicles (e.g. shuttle buses, large and heavy duty trucks) combined with increased number of CNG powered vehicles is now straining the output capability of this CNG station. This results in slower and incomplete fuel tank fills. Additionally, the aged equipment experiences increasingly frequent failures and replacement parts are difficult to obtain.

This Fiscal Year, ISD will engage a consultant specializing in alternate fuel site construction and operations. The consultant will be tasked to provide information on potential options and analysis which can be used to help County determine the best model for continued CNG station operations.

Fleet Reviews

ISD conducted Vehicle Fleet Review meetings with customer departments throughout 2013, which include a review of the department's vehicle utilization, preventative maintenance standards and status, specialized vehicle service needs (as applicable), cost review, M4 Fleet system information availability and uses, and recommendations for consideration. For example, low usage vehicles (under 5,000 miles annually), excess usage (over 20,000 miles annually), and vehicle replacement considerations including right sizing the vehicle fleet are examined.

ISD has reduced its vehicle fleet by 253 vehicles since January 2010. Some vehicles (114 as of January 2014) have been transferred to other County departments to replace very old or high mileage units. Overall, County vehicle emissions and fuel economy are improved with these transfers/replacements.

Additionally, ISD management and staff continue to work with County departments and other government agencies on environmental vehicle initiatives, County fuel systems and infrastructure, and attend workshops to gain more applied knowledge on greening our fleet.

If you have any questions, please contact me at (323) 267-2101, or your staff may contact Joe Sandoval of ISD's Purchasing and Contract Services at (323) 267-2109.

TT:JS:MN:mat

Attachment

c: ISD Board Deputies
Chief Executive Office
Department Heads
Administrative Deputies
Vehicle Coordinators

Fuel Type - Emiss Cert Summary
2013

Count by Fuel Type			ALTERNATE FUEL VEHICLES (AFV)											
Department Name	GAS	DIESEL	LPG	METHANOL/ GAS	PROPANE/ GAS	HYBRID ELECTRIC/ GAS	ETHANOL/ GAS	ELEC	CNG/ GAS	CNG	Grand Total	Total AFV	AFV as % of Total	Emission Certifications
Agricultural Commissioner	300	14				3	4				321	7	2.2%	183
Alternate Public Defender	4					1					5	1	20.0%	3
Animal Control	53					4	29			1	87	34	39.1%	71
Assessor	7					1					8	1	12.5%	5
Auditor-Controller	4					1					5	1	20.0%	3
Beaches & Harbors	110	9				2	7				128	9	7.0%	67
Board of Supervisors	33					42	2				77	44	57.1%	61
Chief Executive Office	6	1				4	3				14	7	50.0%	12
Child Support Svcs	8										8	0	0.0%	6
Children and Family Services	74					1	5				80	6	7.5%	32
Community & Senior Services	40					5	5				50	10	20.0%	39
Coroner	32	3				1	15				51	16	31.4%	30
District Attorney	236					5	65				306	70	22.9%	0
Health Services	293	43				5	7	1			349	13	3.7%	244
Internal Services	505	11		1	1	34	76	2		12	642	126	19.6%	134
Mental Health	151					111	14				276	125	45.3%	581
Military & Veteran Affairs	1										1	0	0.0%	172
Museum of Natural History	13	2									15	0	0.0%	1
Parks & Recreation	533	9	2			20	9		2	4	579	37	6.4%	3
Probation	303	3				56	163				525	219	41.7%	364
Public Defender	5						4				9	4	44.4%	360
Public Health	94	2				40	12			1	149	53	35.6%	3
Public Library	51	2				1	4		1	2	61	8	13.1%	98
Public Social Services	19										19	0	0.0%	35
Regional Planning	1					3					4	3	75.0%	14
Registrar-Recorder/County Clerk	42	2				7					51	7	13.7%	2
Treasurer/Tax Collector	7					2					9	2	22.2%	32
Human Resources	1										1	0	0.0%	4
Grand Total	**2,926**	**101**	**2**	**1**	**1**	**349**	**424**	**3**	**3**	**20**	**3,830**	**803**	**21.0%**	**2,558**