



# City of Carson

## Report to Mayor and City Council

August 6, 2013  
New Business Discussion

**SUBJECT: CONSIDER APPROVAL OF A MEMORANDUM OF UNDERSTANDING BETWEEN THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AND THE CITY OF CARSON FOR A CATENARY ZERO EMISSIONS GOODS MOVEMENT PROJECT ON ALAMEDA STREET BETWEEN LOMITA BOULEVARD AND THE DOMINGUEZ CHANNEL BRIDGE**

Submitted by Farrokh Abolfathi  
Director of Public Works

Approved by Jacquelyn Acosta  
Acting City Manager

### **I. SUMMARY**

The South Coast Air Quality Management District (SCAQMD) has an interest in the development and deployment of zero emissions goods movement transportation technologies within the South Coast Air Basin. The SCAQMD is planning to construct one mile of a catenary (flexible overhead cabling system) zero emissions goods movement system on Alameda Street between Lomita Boulevard and the Dominguez Channel Bridge, entirely within the City of Carson's jurisdiction (Exhibit No. 1).

Once the system is constructed; a 12-month demonstration will be conducted to collect intended feasibility study information. At the conclusion of the demonstration, if the catenary system has not been approved by the City for a future project, the SCAQMD will decommission all catenary infrastructure equipment and return the site to its original condition.

Since this pilot-scale project is within the City's jurisdiction, the SCAQMD Board requires the execution of a Memorandum of Understanding (MOU) between the City and SCAQMD (Exhibit No. 2).

The MOU formalizes the financial and procedural arrangements between the SCAQMD and the City. There is no cost to the City associated with this project.

### **II. RECOMMENDATION**

TAKE the following actions:

1. APPROVE the Memorandum of Understanding between the South Coast Air Quality Management District and the City of Carson covering the construction and demonstration of a pilot-scale zero emission cargo transport system on Alameda Street between Lomita Boulevard and the Dominguez Channel Bridge.
2. AUTHORIZE the Mayor to execute the Memorandum of Understanding following approval as to form by the City Attorney.

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**III. ALTERNATIVES**

1. DO NOT APPROVE the MOU between the SCAQMD and the City of Carson.
2. TAKE another action the City Council deems appropriate.

**IV. BACKGROUND**

The SCAQMD, on behalf of the Southern California Zero Emission Freight Movement Regional Collaborative, consisting of the Port of Los Angeles (POLA), the Port of Long Beach (POLB), the Southern California Association of Governments, the Gateway Cities Council of Governments, and the California Department of Transportation has proposed the construction and demonstration of a pilot-scale Zero Emissions Cargo Transportation (ZECT) system.

The ZECT system consists of two components, a catenary power system on a one-mile section of roadway within the general POLA/POLB complex and specialized catenary-ready drayage (unpowered, totally controllable vehicle) trucks that can move containers with zero emissions along the catenary between the ports and near dock facilities. The objective is to prove feasibility and accelerate zero emissions cargo transportation technologies that can reduce or eliminate harmful diesel engine emissions while also displacing petroleum consumption and mitigating greenhouse gases.

The ZECT project will include the construction of the test-bed overhead catenary lines, as well as the special hybrid-electric trucks, which will be able to seamlessly connect and disconnect from the system. This pilot-scale project will seek to enable future phases of construction that will deploy catenary infrastructure along key truck routes from the marine terminals to the Intermodal Container Transportation Facility and possibly other areas within the port region, including 20 miles of the I-710 freeway.

The SCAQMD has selected a one-mile roadway in the City of Carson on Alameda Street between Lomita Boulevard and the Dominguez Channel Bridge for construction and demonstration of the pilot-scale ZECT. The construction of this pilot-scale project will take approximately one year. The SCAQMD is planning to start the construction in mid-2014 and complete it by mid-2015. Once the system is operational, a 12-month demonstration will be conducted to collect information related to vehicle performance, system reliability, operational costs, integration into drayage operation, and grid impact. At the conclusion of the demonstration, if the catenary system has not been approved by the City for a future project, the SCAQMD will decommission all catenary infrastructure equipment and return the site to its original condition.

**V. FISCAL IMPACT**

None. All costs of this pilot-scale ZECT project will be paid for by the SCAQMD.

**VI. EXHIBITS**

1. Location Map. (pg. 4)
2. MOU between the City of Carson and SCAQMD. (pgs. 5-7)

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Prepared by: MASSOUD GHIAM, P.E., Senior Civil Engineer

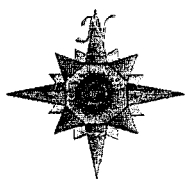
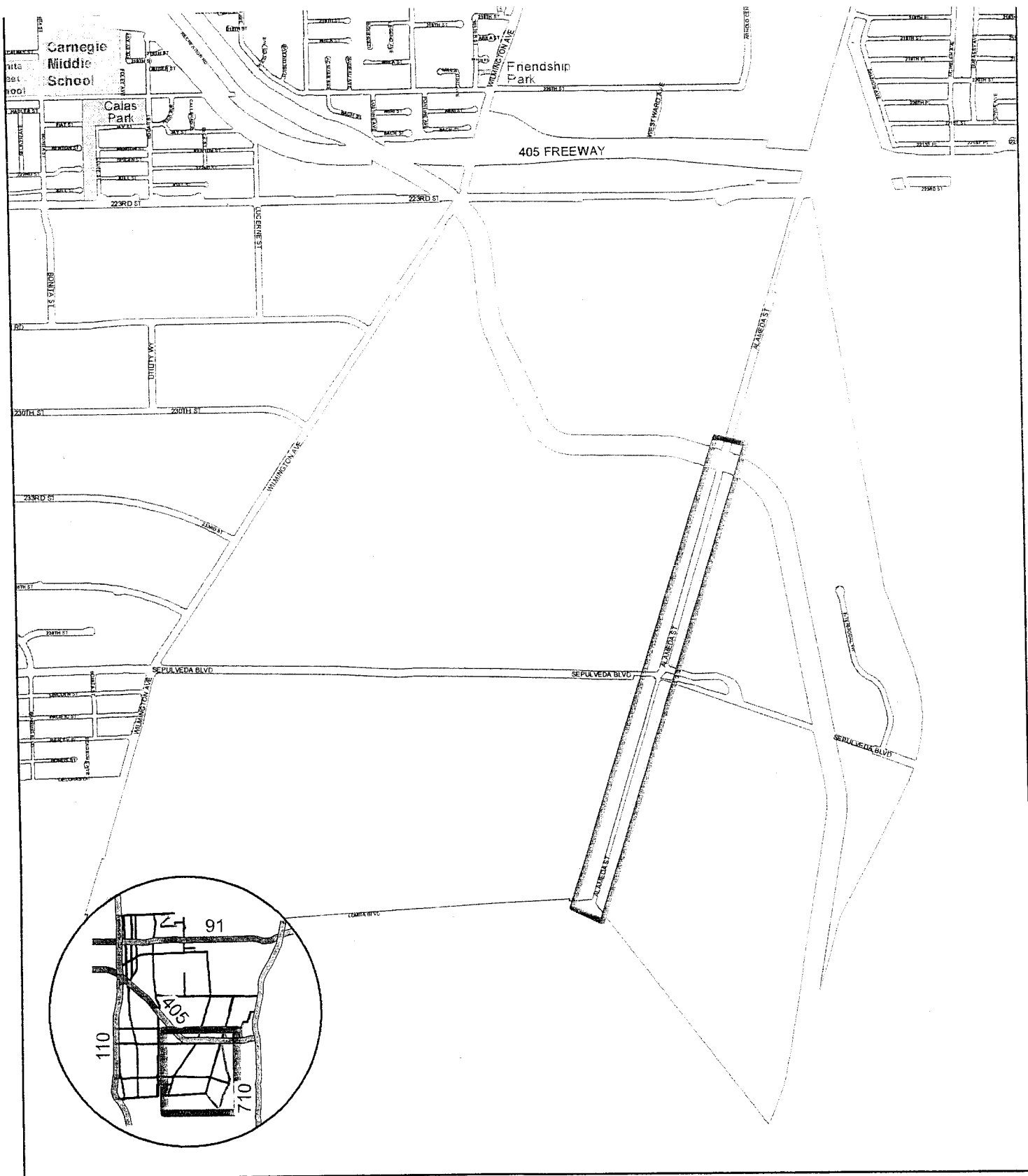
TO: Rev06-19-2013

Reviewed by:

City Clerk	City Treasurer
Administrative Services	Public Works
Community Development	Community Services

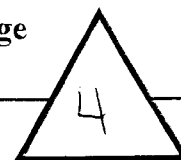
**Action taken by City Council**

Date\_\_\_\_\_ Action\_\_\_\_\_



**Location Map**  
**SCAQMD Zero Emissions Cargo Transport System**  
**Alameda Street from Lomita Blvd to the Dominguez Channel Bridge**

**EXHIBIT NO. 1**



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is entered into by and between the City of Carson ("CITY") and South Coast Air Quality Management District ("SCAQMD"), referred collectively herein as "Parties," or individually as "Party."

I. This MOU is made with reference to the following recitals:

WHEREAS, SCAQMD is the regional regulatory agency with jurisdiction over air quality in the South Coast Air Basin;

WHEREAS, the SCAQMD has an interest in the development and deployment of zero emissions goods movement transportation technologies within the South Coast Air Basin;

WHEREAS, CITY also has an interest in the development and deployment of zero emissions goods movement transportation technologies within CITY;

WHEREAS, on April 5, 2013, the SCAQMD Governing Board approved funding for the development and demonstration of one such technology, the catenary system, which includes the construction of one mile of catenary system infrastructure and the demonstration of catenary-accessible heavy-duty trucks ("Project");

WHEREAS, CITY has jurisdiction over the proposed catenary system demonstration site on Alameda Street from E. Lomita Blvd to the Dominguez Channel;

WHEREAS, a successful demonstration of the above-described technology would benefit air quality within CITY and within the South Coast Air Basin;

II. NOW, THEREFORE, in consideration of the mutual interests and benefits to be derived therefrom, the Parties agree as follows:

- A. SCAQMD will be responsible for executing contracts for the construction of the catenary system infrastructure and to develop and demonstrate catenary-accessible trucks with Siemens Industry, Inc. and Transportation Power (TransPower).
- B. SCAQMD will be the overall Project manager, and will monitor progress of the Project schedule, tasks and deliverables.
- C. SCAQMD will direct contractors to make commercially reasonable efforts to obtain all necessary approvals, consents and permits and to submit and file any information or documents regarding the construction, ownership, operation and maintenance of the catenary system ("Approvals") with (i) the utilities providing electric service to the catenary, and (ii) governmental entities and agencies, to the extent the same may be required for the installation, ownership, operation and maintenance of the system.



- D. SCAQMD will require its contractors to monitor and maintain the system for a 12-month demonstration period.
- E. SCAQMD will work with its contractors and stakeholders to determine if the catenary system will be used for a future project connecting the ports to the rail yards. SCAQMD will seek approval from CITY to keep the catenary system in place if the system will be used for a future project. SCAQMD will require its contractors to determine the catenary system owner and operator if the system expands connecting the ports to the rail yards.
- F. After the demonstration period has ended, and if the catenary system has not been approved by the CITY for a future project, SCAQMD will require its contractors to decommission all catenary infrastructure equipment and remove them from the demonstration site, and to return the site to its original condition.
- G. CITY will grant encroachment permits necessary for SCAQMD and its contractors to demonstrate the catenary system and trucks within CITY, and CITY agrees to expedite the CEQA and construction permitting process.
- H. CITY agrees to work cooperatively with SCAQMD, contractors and consultants regarding the Project, and provide direction on requirements for permits and Approvals.
- I. The term of the MOU is for three years from the date of execution by all parties.
- J. All notices to be given under this MOU shall be in writing and either sent by electronic mail, a nationally recognized overnight courier service (in which case notice shall be deemed delivered as of the date shown on the courier's delivery receipt), or sent by fax during business hours of the recipient, with a copy of the notice also deposited in the United States mail, postage prepaid the same business day (in which case notice shall be deemed delivered upon fax transmittal provided that a transmission report is generated reflecting the accurate transmission of the notices), or sent by United States mail, postage prepaid (in which case notice shall be deemed delivered as of two business days after deposit in the mail), addressed as follows:

City of Carson  
701 East Carson Street  
P.O. Box 6234, Carson, California 90749  
Attention: David C. Biggs (310) 952-1728

South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765  
Attention: Joseph Impullitti, Technology Advancement Office (909) 396-2025



The contact information above may be changed by written notice to the other party provided that no notice of a change of shall be effective until actual receipt of the notice. Copies of notices are for informational purposes only, and a failure to give or receive copies of any notice shall not be deemed a failure to give notice.

IN WITNESS WHEREOF, the Parties have executed this MOU as of the date last written below by their duly authorized representatives:

SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

*Brianne Anderson*

*5/28/2013*

CITY OF CARSON

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Approved as to legal form:  
Kurt Wiese, General Counsel

*Kurt Wiese*

