## AQMD High Cube Warehouse Truck Trip Study Stakeholder Working Group

August 9, 2012

## Summary of High Cube Warehouse Definitions



Key Criteria for High Cube Warehouses

- Greater than 200,000 sf building size
- Minimum ceiling height of 24 feet
- Minimum dock door ratio of 1 per 10,000 sf
- Used primarily for distribution of goods to stores or other warehouses
- High level of automation/mechanization


## Business Survey Pilot Study

- Draft Business Survey will be sent to 10 warehouses
- 10 warehouses chosen have all been visited by AQMD staff
- Not all warehouses in Pilot Study are high-cube warehouses


## Draft Pilot Study Warehouses

Costco Depot (dry)
Costco Depot (refrig.)
Skechers
Kohl's
TTSI/ NEC (Bldg. 1)
Stater Brothers
California Cartage
New Balance
Jakks Pacific Inc.
Target

11600 Riverside Drive, Jurupa Valley
11600 Riverside Drive, Jurupa Valley
29800 Eucalyptus Ave., Moreno Valley
890 E. Mill St., San Bernardino
18735 South Ferris Ave., Compton
301 South Tippecanoe Ave., San Bernardino
2401 E. Pacific Coast Highway, Wilmington
5540 East 4th Street, Ontario
21749 Baker Parkway, City of Industry
14750 Miller Avenue, Fontana

## AQMD High Cube Warehouse Business Survey - Internal Draft

## User Information



1. Facility Information

Facility Name
Facility Street Address
City
State
Zip Code

2. Contact

Name
Title
Phone
E-mail


## Building Information

## 3. What is the size of your warehouse excluding office space?

Warehouse size in square feet $\square$

## 4. Are you the only tenant at this facility?

Yes
5. What is the approximate ceiling height of your building?

Ceiling height in feet $\square$
6. How many dock doors are located at your warehousing operation?

Number of dock doors $\square$
7. What percent of goods are transported to/from your warehouse using an onsite rail line?25 to 50 percent
1 to 25 percent
8. What percentage of floor space is typically dedicated to each activity?

| Storage racks | $\square$ |
| :--- | ---: |
| Cross dock |  |
| Parcel | $\square$ |
| Sorting | $\square$ |
| Refrigeration/freezer |  |
| Value added service (labeling, etc.) | $\square$ |
| Supporting activitites (pallet handling, forklift battery charging, cardboard handling, |  |
| etc.) | $\square$ |
| Other |  |Greater than 50 percent

## 9. What type of goods do you handle at your warehouse?

- Raw materials

D Durable goods (furniture, appliances, etc.)

- Non-perishable consumable goods (dothing, toys, etc.)
$\lceil$ Perishable consumable goods (food, drinks, etc.)
- Parcel

Other (please specify)

## 10. Approximately how many employees work at your facility on a typical day?

full time
part time

11. Which month(s) do you move the highest volume of goods?

| January |  | May |
| :---: | :---: | :---: |
| February | ए | June |
| March | $\Gamma$ | July |
| April | - | Aug |

12. How much busier are you during these month(s) compared to average months?
\% increase $\square$
13. How does your current number of total deliveries compare to your historical best year? (only fill in one)
\% higher
\% lower $\square$

## 14. At what percentage of utilization is your warehouse?

Less than 50 percent utilization60 to 70 percent utilization
50 to 60 percent utilization70 to 80 percent utilization
15. How long do you generally take to turn over most of your inventory?
DailyMonthly

WeeklyQuarterlySemi-annuallyAnnually

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## Automation


We don't use conveyors3 to 6 miles
0 to 3 miles6 to 9 miles

## 17. How many forklifts/pallet jacks does your business use?

Number of forklifts/pallet jacks $\square$

## 18. Does your facilty use any of the following processes to automate your warehouse operations?

Barcode scanning

- Automated sorting
$\square$ Automated storage
Conveyorized loading and/or unloading directly into trailers
Other


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## Vehicle Activity

19. How many employee vehicles enter through your gate(s) on the busiest day of a typical week?

Number of light duty cars and pidkup trudks $\square$
20. How many delivery trucks enter through your gate(s) on the busiest day of a typical week?

Number of delivery trucks $\qquad$
21. What percentage of deliveries come from the following locations?

Port of Los Angeles
Port of Long Beach
Port of San Diego
Port Hueneme
Other Warehouses
Rail Yard

Airport
Local Store (southern CA)
Non-local Store (other CA)
Out of State

22. What percentage of deliveries go to the following locations?

Port of Los Angeles
Port of Long Beach
Port of San Diego
Port Hueneme
Other Warehouses
Rail Yard
Airport
Local Store (southern CA)
Non-local Store (other CA)
Out of State


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## Fleet Information

23. How many hostlers (i.e., yard goats) does your warehouse operate?
$\square$
24. If you own heavy duty delivery trucks, please indicate which engine technology makes up the largest portion of your fleet:Pre-2007 model year diesel enginesModel year 2007 or newer diesel enginesModel year 2010 or newer diesel enginesLNGOther alternative fuel

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