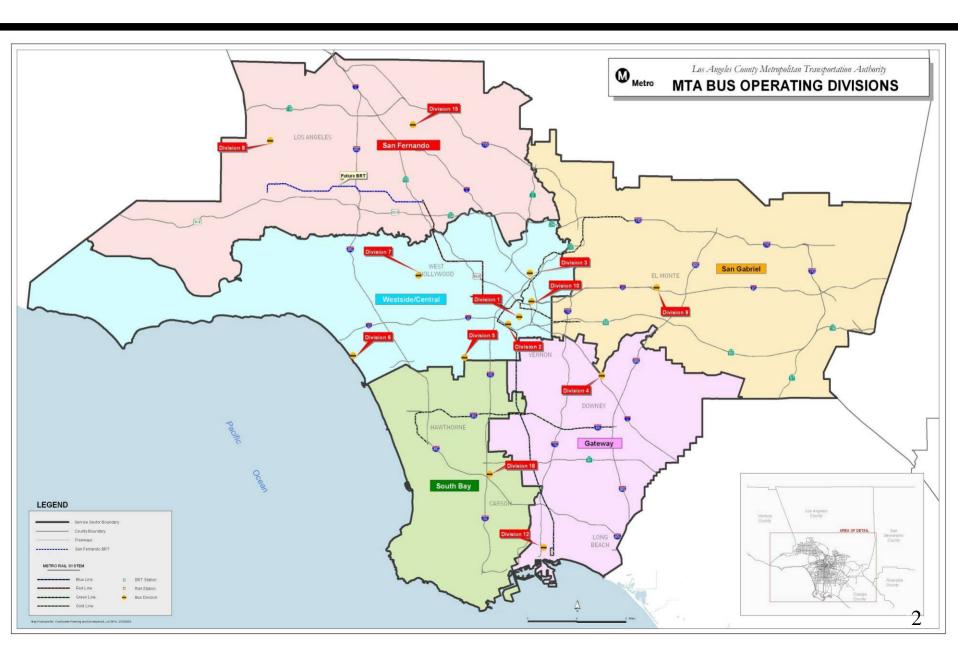
Metro Facilities-Operations: Bus Division Capacity Assessment



Operations Committee June 19, 2008



Bus Divisions



Morning Roll-Out: Division 10







Morning Roll-Out: Division 10









Morning Roll-Out: Division 10







Morning Roll-In: Division 10





Morning Roll-In: Division 10









Morning Roll-In: Division 10





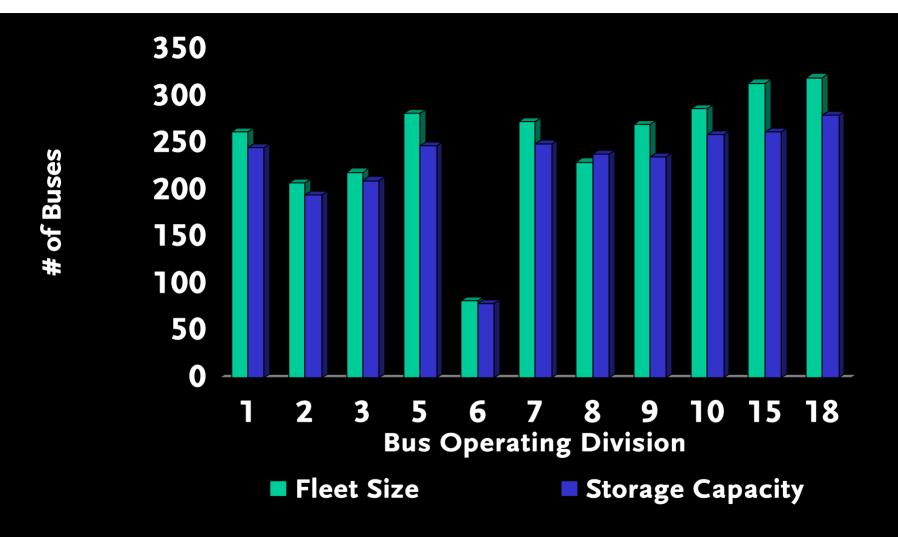


Overview

- Facilities-Operations completed a staff report on bus capacity issues in May 2008
- 11 Bus divisions are a key component to operating our fleet of 2,498 buses everyday
- Today we are operating 10% over systemwide capacity
- 3 major facility issues:
 - Insufficient Bus Capacity
 - Insufficient Infrastructure Investment
 - Increased Ridership Growth
- No new bus division construction since 1984
- Strategy 1A: Expand/Improve Existing Bus Divisions
- Strategy 1B: Two New Bus Divisions LAX and Union Division



June 2008: All Bus Divisions At or Over Design Capacity





Budgeted Bus Acquisitions

- Currently we are 249 buses over capacity systemwide
- Over the next two years we are buying new longer buses exacerbating our capacity problem

FISCAL YEAR PROGRAM	NUMBER	TYPE
2009	130	45-Foot
2010	130	45-Foot
HOT Lanes	63	60-Foot
Orange Line Canoga Extension	22	60-Foot



Additional Bus Capacity Required for Longer Buses

 Even without expanding our fleet in the long term, buying longer 45 and 60-foot buses only makes our capacity issues worse

Bus Procurement Alternative

Additional Bus Capacity

100% 45-Foot

261

75% 45-Ft/ 25% 60-Ft

417

50% 45-Ft/50% 60-Ft

651



Insufficient Infrastructure Investment

 Historically, allocations for bus division improvements have ranged from 1.3% to 8.7%, a small percentage of the Capital Program Budget

Capital P	rogram	\$ 6,445
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Bus Division \$	3	04.7	7
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Improvements

Allocation 4.7%



HASTUS 2007 Simulation Results

 Our scheduling software indicates that we need additional capacity in Downtown and the Westside to reduce inefficiencies

ADDITIONAL CAPACITY NEEDED

CENTRAL CORE

WESTSIDE/ SOUTH
BAY CORE

84

141



Overcrowding Leads to Inefficient Operations

<u>ISSUE</u> <u>AMOUNT/YEAR</u>

Inefficient use of staff \$ 2,309,392

Deadhead \$ 4,458,301

Productivity loss \$ 11,211,408



Outlying Divisions Leads to Excess Deadhead

SERVICE CHANGE	NON- REVENUE VEHICLE HOURS	REVENUE VEHICLE HOURS	TOTAL VEHICLE HOURS	NON- REVENUE HOURS TO TOTAL VEHICLE HOURS	ANNUAL COST OF DEADHEAD
6/30/96	1,657	18,679	20,336	8.1%	\$3,648,812
12/16/07	2,426	22,421	24,847	9.8%	\$4,458,301
% Increase	46%	20%	22%	22%	22%



Increased Ridership

Ridership is increasing.....and this trend is expected to continue

FY 07 BOARDINGS

FY 09 BOARDINGS

386,260,000

406,079,000



Master Plans and New Construction

- Division expansion and new construction of divisions has not kept pace with fleet size and vehicle growth
- If no new division capacity is added, we cannot continue to deploy longer, high capacity buses to increase seat capacity as currently planned

DIVISION	PLANNING EFFORTS
1	Pending resolution of eminent domain
2	Proposals for Master Plan submitted
3	Construction ongoing
7	Awarded June 2008
9	Phased construction ongoing

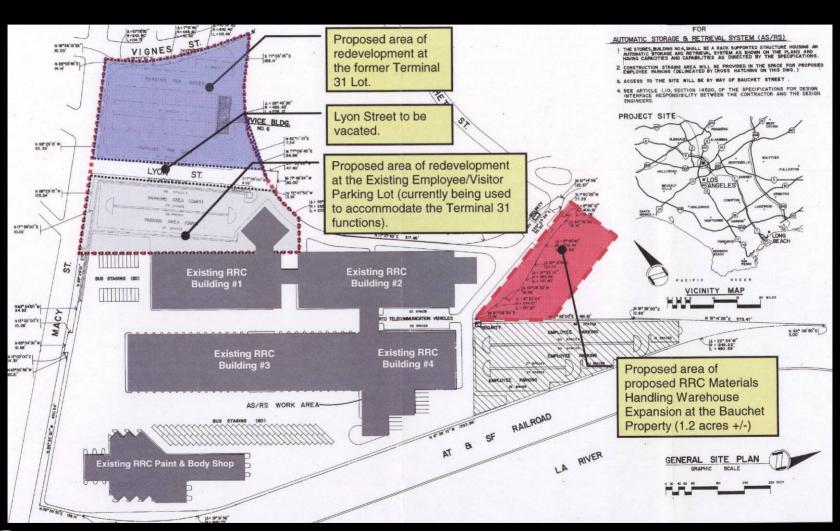


Union Division – Adds Capacity to Central

- Formerly Division 10 Expansion project
- Three-story bus maintenance and operations facility located adjacent to Metro Support Services Center
- Capacity for a mixed fleet of up to 200 buses
- Silver LEED certification
- Design concept is complete, environmental clearance will be complete July 2008
- Engineering contract went out to bid May 2008
- Construction scheduled to be complete in late 2010/early 2011
- Total life-of-project budget will be \$89.9 million, with FY09 expenditures planned at \$7.6 million
- Scheduled for Board approval in August 2008



Project Location



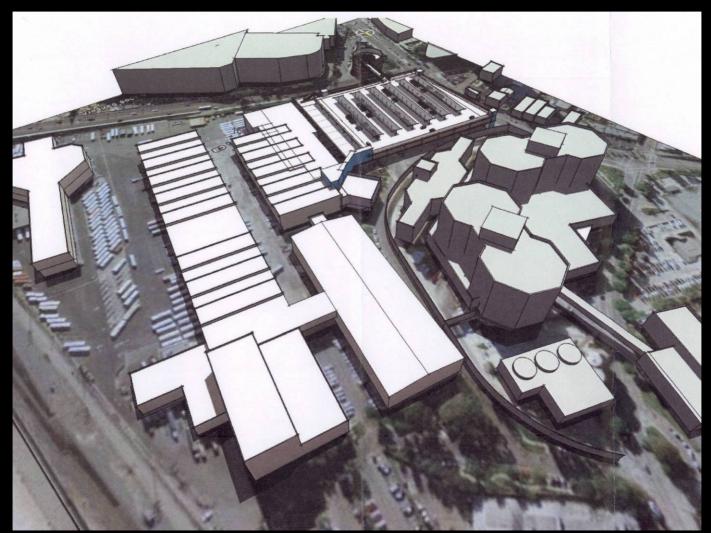


View of Site Massing from USG





Aerial View of Site Massing

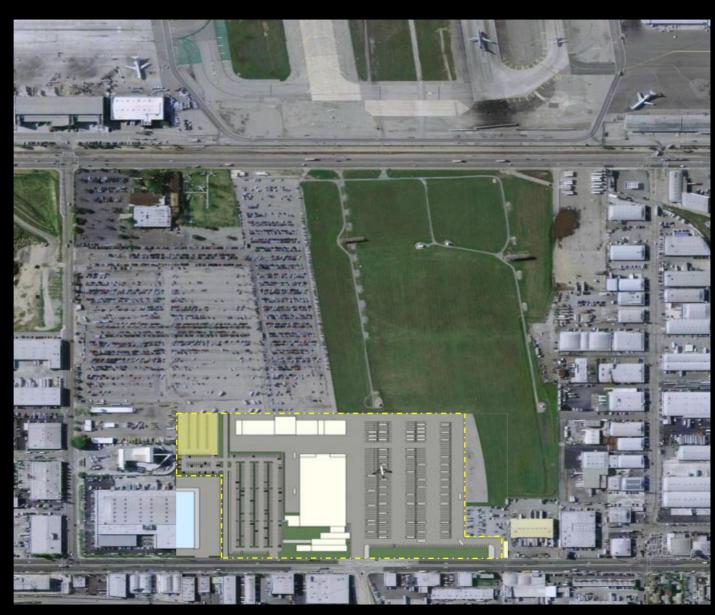


LAX Division – Adds Capacity to the Westside

- LAX Division is planned to replace Division 6 in Venice, as well as to solve capacity issues in the Westside and Southbay areas
- Site concept has been completed, the Federal Aviation Administration (FAA) has approved the site plan, and the Environmental Impact Report (EIR) is underway
- 24 acres and can accommodate a facility with a mixed fleet of 300 buses
- Planned for Silver/Gold LEED Certification
- Location of division is geographically desirable and alleviates deadhead costs systemwide
- Currently in lease negotiations with LA World Airports (likely 50 year lease per FAA rules)
- Construction costs are \$85 million, with an annual lease of approximately \$3 million.
- Proposed FY10 Expenditures are \$22 million

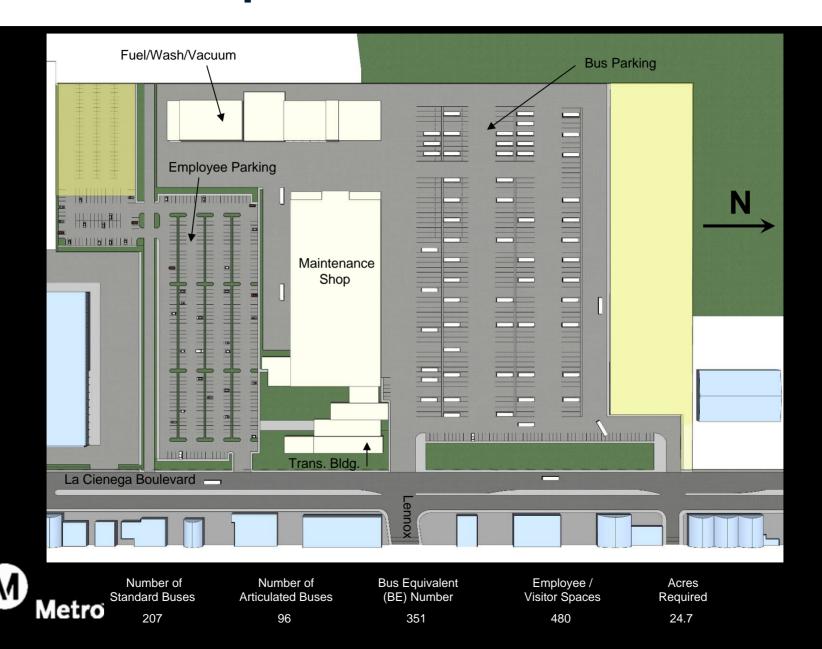


Aerial View of Site and Vicinity





Site Plan: Proposed LAX Bus Division



Summary

Metro

- There is currently a storage deficit of 249 buses systemwide
- This storage deficit will only get worse as we transition to purchasing only longer buses to meet ridership demands
- The storage deficit and lack of facilities in high ridership areas contributes significantly to inefficient operations
- If no new capacity is added, we cannot continue to deploy longer, high capacity buses as currently planned
- We must increase investment in existing facilities, and add two new bus divisions to the system (one Downtown, one Westside) as soon as possible to provide capacity, operational flexibility, and system efficiencies