



Memorandum

TO: HONORABLE MAYOR
AND CITY COUNCIL

FROM: John Aitken

SUBJECT: ANNUAL STATUS REPORT ON
THE AIRPORT MASTER PLAN

DATE: May 17, 2018

Approved

Date

5/21/18

INFORMATION

This Annual Status Report on the Airport Master Plan for the year 2017 is being provided to Council pursuant to City Municipal Code Section 25.04.1210.

Background

In 1998, City Council adopted Ordinance No. 25528 and Resolution No. 67947 which created an "Implementation Program" for the Airport Master Plan adopted in 1997. This Implementation Program set forth conditions and requirements for Airport development to give additional assurance to the community that implementation of projects would proceed in an orderly manner.

Section 25.04.1210 of the Airport Master Plan Implementation Program Ordinance requires preparation of an annual evaluation of the Airport Master Plan, including the status of the capital improvement program, aviation activity levels and demand projections, and implementation of environmental mitigation measures and these Implementation Program Ordinance requirements. The following information is presented to fulfill this Municipal Code requirement for calendar year 2017.

Status of Master Plan Capital Improvement Program

The Airport Master Plan, as amended to date, identifies approximately 70 facility improvement projects to be implemented in a phased program to adequately serve aviation demand projected out to the year 2027. Most of the major projects (including runway extensions, new taxiways, and new terminal buildings, garages, and roadway improvements) have been completed.

The Airport's capital program in 2017 focused on upgrades and modifications to existing facilities, several of which were funded in part by FAA Airport Improvement Program grants as well as unspent bond proceeds from the Terminal Area Improvement Program completed several years ago. Projects completed, underway, or initiated during 2017 are highlighted as follows:

- Airfield Improvements. Construction of an FAA grant-funded security technology project to install a system of cameras around the airfield perimeter, with associated hardware/software, was completed. Also completed with FAA grant funding was the replacement of 200,000 square feet of deteriorating airfield pavement with full-strength concrete on the southeast side of the Airport used for cargo and remote airline aircraft parking. Design work was initiated on several projects including replacement of deteriorating aircraft parking pavement located immediately south of Terminal B and on improvements to airfield electrical and lighting systems.
- Terminal Area Improvements. Construction of interior and exterior improvements to the Federal Inspection Services (FIS) facility serving international passenger arrivals was completed, including an expanded baggage claim system, an enclosed public meet/greeter area on the curbside, and a related reconfiguration of the adjacent roadway and ground transportation facilities serving Terminal A and the FIS for more efficient and safer vehicle and pedestrian movement. At Terminal B, the construction of two new interim gates (#29 & 30) attached to the south end of the building was completed and opened for use to support the continuing increase in airline service. Preparation of a Request for Proposal (RFP) was also initiated for the design/build of an additional 4-gate interim expansion (#31-34), with construction anticipated to be underway by late 2018.
- East Side Non-Terminal Area Improvements. A consultant Request for Qualifications (RFQ) and selection process for as-needed planning services was completed, with the first service order issued for a study of the potential redevelopment/reconfiguration of the various cargo and Airport/airline support facilities located along the southeast side of the Airport, some of which are in old deteriorating and space-constrained structures or which may be displaced by the future south expansion of the passenger terminal. The study is expected to be completed by mid 2018. One of the deteriorated southeast buildings was vacated in late 2017 with the completed relocation of the Police Department's Airport Division offices to a new modular building installed on the northeast side of the Airport.
- Runway Incursion Mitigation/Design Standards Analysis Study. This FAA grant-funded consultant study to improve airfield operational safety as well as compliance with current FAA design standards, initiated in late 2016, continued to progress. Analysis of various potential modifications to the existing configuration of airfield facilities is nearing completion. A recommended set of airfield configuration improvements will be included in the next proposed amendment to the Airport Master Plan (for City review/action) and update to the Airport Layout Plan (for FAA review/action) expected to be underway by mid 2018.
- Electric Shuttle Buses and Infrastructure. A Request for Bid (RFB) was solicited for the replacement of the Airport's seven-year old CNG-powered shuttle buses with a new electric-powered fleet, and the City was awarded a grant from the FAA under its Zero Emission Vehicle (ZEV) program grant to support the acquisition of 10 electric buses and installation of associated charging infrastructure. Procurement of the buses from the selected manufacturer and design/construction of the charging station facilities is anticipated to be completed by early 2019.

Status of Airport Activity Levels

The following table presents annual aviation activity levels over the last three years along with the projections contained in the current Airport Master Plan.

Airport Activity Levels and Master Plan Forecasts

	2015	2016	2017	Projected 2027
Air Passengers	9,799,427	10,796,725	12,480,232	17,600,000
Cargo Tonnage	53,837	60,360	61,365	189,700
Based General Aviation Aircraft	136	137	133	209
Airline Passenger Operations	93,256	103,280	119,574	183,700
All-Cargo Operations	1,542	1,616	1,606	6,800
General Aviation Operations	33,987	33,743	34,518	73,200
Military Operations	<u>236</u>	<u>276</u>	<u>216</u>	<u>100</u>
Total Operations	129,021	138,915	155,914	263,800

The 12.5 million passengers served in 2017 was a 15.6% increase from 2016, one of the highest rates of airport growth in the country, and the fifth consecutive year of increased passenger activity at SJC. The number of passenger airline operations in 2017 (over 119,000) also increased by a comparable percentage from 2016, reflecting flights added by several new and incumbent airlines and again demonstrating that local passenger demand can support additional airline service. These operations averaged 104 passengers per airline during 2017, close to the 2016 average of 105 passengers per flight which was the highest in the Airport's history. Southwest has remained the leading airline at SJC, accounting for close to half of all passengers and airline operations.

Passenger activity also increased at San Francisco International (SFO) and Oakland International (OAK) airports in 2017. Combining the three airports, overall Bay Area air passenger traffic increased 7% from 2016, with SJC slightly increasing its share of the regional total to 15%. Staff continues to monitor activity levels and work with airlines on providing service that meets the air travel needs of Silicon Valley residents and businesses.

In other segments of Airport activity in 2017, air cargo increased by 1.7% in terms of tonnage volume. The number of all-cargo airline operations remained essentially unchanged, as the growth in tonnage was largely attributable to belly-cargo carried by the passenger airlines, again reflecting the increase in flights, particularly international service. Non-commercial general aviation aircraft operations increased by 2.3% in 2017 despite a slight decrease in number of based aircraft. Total aircraft operations at the Airport in 2017 (almost 156,000) increased 12.2% from 2016.

Overall, aviation activity levels remain consistent with the demand projections for the year 2027 contained in the current Airport Master Plan (last amended in 2010) and its associated Environmental Impact Report. An update to the Airport demand projections, including a new longer-term horizon year, was initiated in 2017 as part of the ongoing Runway Incurion Mitigation/Design Standards Analysis consultant study. The forthcoming updated demand forecasts, and associated modifications to the long term Airport facility development program, will be brought forward to the Council for consideration as the next proposed amendment to the Airport Master Plan (pursuant to Section 25.02 of the Municipal Code) in early 2019.

Status of Implementation Program Requirements

Attachment 1 provides a 4-page itemized listing and status report on compliance with the adopted 1998 Airport Master Plan Implementation Program.

Status of EIR Mitigation Measures

Attachment 2 provides a 2-page itemized listing and status report on implementation of the environmental mitigation measures identified in the 1997 Airport Master Plan Environmental Impact Report (EIR) and the 2003 Supplemental EIR.

Status of ARB Air Quality Certification Conditions

Attachment 3 provides a 2-page itemized listing and status report on compliance with the 1999 California Air Resources Board (ARB) air quality certification conditions required as part of the FAA approval of the 1997 Airport Master Plan development program.

/s/

JOHN AITKEN, A.A.E.
Director of Aviation

Please contact John Aitken, Director of Aviation, at 392-3610, with any questions.

Attachments

JA:CG

ATTACHMENT 1

Airport Master Plan: Implementation Program Status Report for 2017

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Element	Status
1. All Airport capital projects to be consistent with the Master Plan. [SJMC Section 25.04.210]	Ongoing.
2. Facility limitations: 40 air carrier gates; 12,700 public parking spaces; terminal building space and rental car ready/return spaces restricted to #s in current Master Plan. [SJMC Section 25.04.300]	Ongoing.
3. No additional gates until at least year 2000, annual passenger volume exceeds 11.2 million, and transportation prerequisites specified in #10 below are met. [SJMC Section 25.04.310]	Completed.
4. Construction of Route 87 must be underway prior to new terminal, parking garage, or west side cargo facility construction. [SJMC Section 25.04.330-A]	Completed.
5. All Stage 3 aircraft to be operating at Airport prior to new terminal, public parking garage, or west side cargo facility construction. [SJMC Section 25.04.330-B]	Completed.
6. Council to review tenant/airline compliance with Noise Control Program prior to proceeding with new landside facilities for those tenants/airlines. [SJMC Section 25.04.330-C]	Ongoing.
7. Council to review Airport activity levels with forecasts and EIR adequacy prior to proceeding with new terminal, west side cargo, or general aviation facilities. [SJMC Section 25.04.330-D]	Ongoing.
8. Prior to proceeding with new cargo or general aviation facilities, demonstrate need for such facilities and funding commitment by prospective tenants. [SJMC Section 25.04.330-E]	Ongoing.
9. Prior to proceeding with new terminal buildings, conduct review of airline leases and financial commitments in accordance with established City policies. [SJMC Section 25.04.350]	Ongoing.
10. Prior to proceeding with construction of a Central Terminal or additional gates, the following transportation projects to be within 3 years of completion with funding identified: Route 87 Freeway; added southbound lane on Coleman Ave. at I-880; and improvement at 3 Airport entrances to specified levels of service. Funding source for a rail or fixed guideway connection between Airport and light rail or Caltrain station also to be identified. Voter approval required to modify these requirements. [SJMC Section 25.04.410]	Completed.
11. City Manager and Director to meet at least annually with all tenant airlines to seek compliance with the Noise Control Program, including voluntary minimization of curfew-compliant operations, avoiding published departure/arrival times within curfew hours, complete/accurate reporting of reasons for curfew period operations, and adhering to FAA-designated approach paths. Airport to prepare an annual report on airline compliance and good faith efforts. [SJMC Section 25.04.510]	Ongoing. [general airline meeting on Noise Control Program held 3/8/17; airline compliance & good faith effort report for 2017 to be submitted to Council as a separate Info Memorandum]

Attachment 1

Airport Master Plan: Implementation Program Status Report for 2017

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Element	Status
12. City to continue to require Noise Control Program compliance in airline agreements and seek enforcement provisions in agreements for new facilities. [SJMC Section 25.04.530]	Ongoing.
13. Any proposed modification to the Noise Control Program requires appropriate CEQA, Master Plan, public and FAA review. [SJMC Section 25.04.550]	Ongoing.
14. Airport to continue engine run-up monitoring and reporting. If high power run-ups average more than 3 per month during curfew hours over any 12-month period, report to Council and initiate a run-up enclosure facility project. [SJMC Section 25.04.570]	Ongoing. [only 3 high power run-ups occurred during curfew hours in 2017]
15. Airport to institute and maintain procedures for substantiating the reasons for curfew intrusions. [SJMC Section 25.04.590]	Completed/ongoing.
16. City to establish a monitoring committee to review curfew intrusions on a quarterly basis, issue a report to Council, and make referrals to City Attorney if non-compliant operations by a single operator are deemed excessive. [SJMC Section 25.04.610]	Completed. [requirement repealed in 2013 by Ordinance 29250]
17. Acoustical treatment of homes in projected 2010 65 CNEL to be completed prior to development of a new terminal, west side cargo, or public parking garage facility. [SJMC Section 25.04.710-A]	Completed.
18. Acoustical treatment of homes in the 1994 65 CNEL to be completed in 2000. [SJMC Section 25.04.710-B]	Completed.
19. Complete acoustical treatment of homes in projected 60-65 CNEL areas identified in Master Plan EIR as significantly impacted, if determined to be eligible for treatment, by 2005. [SJMC Section 25.04.710-C]	Completed.
20. Establish a supplemental noise attenuation program, on a request basis, for homes in projected 60-65 CNEL areas not identified in Master Plan EIR as significantly impacted, and complete program for homes determined to be eligible by 2005, with program available through 2010. [SJMC Section 25.04.730]	Completed.
21. Conduct a supplemental noise attenuation program, on a request basis, for schools in projected 60 CNEL. [SJMC Section 25.04.750]	Completed.
22. Monitor 60 and 65 CNEL after 2000 for comparison with EIR projections and apply noise attenuation programs to the larger of the impact areas. [SJMC Section 25.04.770]	Completed.
23. Director authorized to issue certain contracts and change orders for the noise attenuation program, and to accept or amend aviation easements. [SJMC Sections 25.04.790, 25.04.810, 25.04.830]	Completed/ongoing.
24. If peak hour aircraft operations exceed 130 operations, prepare report to Council for consideration of operational restrictions. [SJMC Section 25.04.900]	Ongoing.

Airport Master Plan: Implementation Program Status Report for 2017

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Element	Status
25. 2/3 Council approval required for any airfield expansion allowing for simultaneous instrument operations. [SJMC Section 25.04.910]	Ongoing.
26. Develop an Airport Transit Access Master Plan in cooperation with VTA, including a goal of 15% of Airport trips by transit by 2005 and with a convenient connection to light rail and Caltrain. [SJMC Section 25.04.1100]	Completed.
27. City to participate with other agencies in developing solutions to Airport area intersection and freeway traffic deficiencies. [SJMC Section 25.04.1110-A]	Completed/ongoing.
28. City Manager to report to Council on road improvement plans prior to approval of new terminal or west side cargo facilities. [SJMC Section 25.04.1110-B]	Ongoing.
29. Prepare an annual Master Plan evaluation report for Council. [SJMC Section 25.04.1210]	Ongoing.
30. Establish FAA Tower Order requiring jet departures to begin from end of extended runways except for emergencies. [Resolution 67947, Section 1]	Completed/ongoing.
31. City Manager and Director to discuss with the County and FAA the use of Airport funds to assist in relocation of general aviation aircraft to Reid-Hillview, including construction of hangars and an acoustical treatment program. [Resolution 67947, Section 2]	Not pursued.
32. Mayor, City Manager, and Director to begin working with other agencies within 90 days to formulate a County-wide aviation plan including Reid-Hillview and Moffett. [Resolution 67947, Section 3]	Not pursued.
33. City Manager and City Attorney to negotiate a master project labor agreement with the Building & Construction Trades Council for specified Phase 2 projects. [Resolution 67947, Section 4]	Completed/ongoing.
34. City to encourage federal legislation to phase out noisier Stage 3 aircraft between the years 2000 and 2005, and encourage airlines to use quietest Stage 3 aircraft at the Airport, particularly in the time period surrounding the curfew hours. [Resolution 67947, Section 5]	Completed/ongoing.
35. Director to pursue a funding eligibility determination from the FAA for acoustical treatment of homes within projected 60-65 CNEL without regard to interior noise level standards. If not eligible, Director to consider and report to City Manager on use of local Airport funds for a loan program for the same purposes. [Resolution 67947, Section 6]	Completed.
36. Airport to complete monthly noise reports within 60 days of reporting month, and to complete quarterly noise reports in a timely manner (objective of 60 days of reporting quarter). [Resolution 67947, Section 7-A]	Ongoing. [monthly noise reports replaced in 2011 by monthly website summaries per Resolution 75781]

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Airport Master Plan: Implementation Program Status Report for 2017
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Element	Status
37. City Manager or Director to notify and discuss non-compliant curfew operations under the Noise Control Program with aircraft operators after the first occurrence. [Resolution 67947, Section 7-B]	Ongoing. [curfew ordinance]
38. Director and City Attorney to develop guidelines for referral of non-compliant curfew operations under the Noise Control Program for legal action. Attorney authorized to file actions seeking compliance with Noise Control Program. [Resolution 67947, Section 7-C/D]	Ongoing. [curfew ordinance]
39. Airport to prepare an analysis of noise monitoring system locations and report to Council within one year with a recommended plan for additional noise monitors. [Resolution 67947, Section 8]	Completed.

ATTACHMENT 2

Airport Master Plan: EIR Mitigation Program Status Report for 2017

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Mitigation Measure	Status
1. [Traffic] Prohibit left turns from Martin Ave. into interim west side public/employee parking lot.	Impact eliminated in 2010 with relocation of parking to east side as part of TAIP.
2. [Traffic] Restripe westbound Brokaw Rd. at Coleman Ave. to allow one left turn-only lane and one left/through/right turn lane.	Completed.
3. [Traffic] Add third left turn lane from southbound Central Expressway at De La Cruz Blvd.	Completed.
4. [Traffic] Add second left turn lane from southbound Coleman Ave. at Airport Blvd.	Completed.
5. [Traffic] Add third through lane on westbound Brokaw Rd. at N. First St.	Not yet applicable.
6. [Traffic] Add additional northbound and southbound through lanes on Airport Blvd. at Airport Pkwy.	Impact eliminated in 2003 by reconfigured Airport Blvd./ Terminal Dr. one-way loop.
7. [Traffic] Add third left turn lane on northbound Airport Blvd. at north Terminal Dr. connection.	Impact eliminated in 2010 by TAIP Terminal A bypass loop.
8. [Traffic] Add third through lane on eastbound Old Bayshore Hwy. at N. First St.	Not yet applicable.
9. [Traffic] Restripe southbound N. First St. at Skyport Dr. to allow two through lanes and one right turn-only lane.	Not yet applicable.
10. [Traffic/Air Quality] Develop and implement a Transportation System Management (TSM) Program as described in EIR.	Completed/ongoing.
11. [Air Quality] Develop/implement a pollutant emissions abatement program during construction.	Ongoing.
12. [Air Quality] Comply, and ensure tenant compliance, with all BAAQMD requirements for stationary emissions facilities.	Ongoing.
13. [Air Quality] Inform van/shuttle, rental car, and air cargo truck fleet operators that regularly serve SJC of City policy encouraging conversion of vehicles to alternative fuels.	Completed/ongoing.
14. [Air Quality] Inform airlines that City supports single or reduced engine taxiing to extent that it would provide air quality benefits and is determined by the FAA and airline to be a safe and efficient procedure.	Completed.
15. [Noise] Continue implementation of existing Noise Control Program, Acoustical Treatment Program, aviation easement requirements, and noise monitoring system improvements as described in EIR.	Completed/ongoing.
16. [Noise] Subject to FAA concurrence, impose the existing restrictions on Rwy. 12R-30L jet takeoffs to Rwy. 12L-30R.	Completed/ongoing.

Mitigation Measure	Status
17. [Noise] If high power engine run-ups during curfew hours average more than 4 per month over a 12-month period, City to re-consider a noise attenuation facility.	Ongoing. [only 3 high power run-ups occurred during curfew hours in 2017]
18. [Noise] Conduct engine run-up noise measurements upon completion of blast fences at ends of Rwy. 12L-30R to determine best location for minimizing run-up noise.	Completed.
19. [Noise] Request County ALUC to update its land use plan consistent with Master Plan and current FAA land use guidelines.	Completed.
20. [Noise] Offer acoustical testing/treatment to Bachrodt Elementary School to meet interior noise level standard of 45 dB Leq.	Completed.
21. [Noise] Monitor noise levels in Rosemary Gardens area after construction of the Route 87 soundwall to determine eligibility for adding homes to the ACT Program.	Completed.
22. [Noise] Offer acoustical testing/treatment to Agnews State Hospital (Santa Clara campus) to meet interior noise level standard of 45 dB CNEL.	Impact eliminated in 1998 by property conversion to compatible land use.
23. [Cultural Resources] Continue existing archaeological monitoring program as described in EIR for all construction projects within designated sensitive areas.	Ongoing.
24. [Hydrology/Water Quality] Increase storm runoff ponding or pumping capacity at north end of Airport.	Completed.
25. [Hydrology/Water Quality] Construct a retention wall around north end of Airport to prevent runoff onto Hwy. 101.	Completed.
26. [Hydrology/Water Quality] Continue implementation of Storm Water Pollution Prevention Program and update as needed.	Ongoing.
27. [Hydrology/Water Quality, Geology/Seismicity, Hazmat] Design new jet fuel storage tanks to meet current requirements, and amend stormwater and applicable emergency plans for fuel storage tanks.	Completed.
28. [Geology/Seismicity] Design and construct all facilities to comply with applicable City building codes and other safety standards.	Ongoing.
29. [Biological Resources] Implement Burrowing Owl Management Plan as described in EIR.	Ongoing.
30. [Biological Resources] Prior to construction of rental car facility bridge, conduct surveys of special status species along Guadalupe River and consult with permitting agencies on any mitigation.	Not yet applicable.
31. [Biological Resources and Aesthetics] Design new jet fuel storage facility to comply with 100-foot setback from bank of Guadalupe River and screen tanks from Hwy. 101 and adjacent land uses.	Completed.
32. [Hazmat] Investigate potentially contaminated sites prior to project construction and, if applicable, implement work safety precautions.	Ongoing.

ATTACHMENT 3

Airport Master Plan: ARB Certification Status Report for 2017

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Condition	Status
1. Provide free public transit passes to Airport tenant and Airport Department employees.	Ongoing. [VTA EcoPass program]
2. Provide free transportation connecting Airport terminals/parking lots and Caltrain/VTA train stations.	Ongoing. [VTA Airport Flyer bus route]
3. Provide public transit information at terminals and on Airport website.	Ongoing.
4. Require all taxis to park in queues near the terminals and to advance on as-needed basis when dispatched to do so.	Ongoing.
5. Operate the Automated Vehicle Identification System charging shuttle van operators a fee for each trip.	Ongoing.
6. To the extent feasible and consistent with City policies and labor agreements, provide flexible work hours for Airport employees to reduce emissions from employee commuting, and assist Airport tenants in encouraging flexible and non-peak work trips.	Ongoing.
7. To the extent feasible and consistent with City policies and labor agreements, provide Airport employees access to a carpool/vanpool matching system, and provide assistance and support to Airport tenants in carpool/vanpool matching for employees.	Ongoing.
8. Install an electric vehicle charging station in the Terminal A parking garage in 1999.	Completed.
9. Advise airline tenants in writing by June 2000 to implement reduced and/or single-engine taxiing to the extent that it would provide air quality benefits and is determined by the FAA and the airlines to be a safe and efficient procedure.	Completed.
10. Replace in 2000 the 17 diesel buses used to shuttle passengers between terminals and parking lots by leasing buses with engines meeting applicable ARB 2004 emission standards. The lease for the replacement buses shall not exceed 7 years. If an Automated People Mover is not fully operational in 2007, Airport shall use shuttle buses certified to meet ARB's cleanest low-emission vehicle standards in effect in 2007 until the APM becomes operational.	Completed.
11. Establish an Airport policy by 2000, consistent with City procurement policies/procedures, to purchase lowest emitting vehicles feasible for the intended use.	Completed/ongoing. [34 CNG buses and 25 alternate-fuel (plus 3 hybrid-fuel) service vehicles acquired since 2000]
12. Study the feasibility of encouraging taxi and shuttle van operators to reduce emissions, with study results submitted to City Manager, City Council, and ARB by 2002. The study should consider requiring a percentage of taxis and shuttles to meet ARB's cleanest low-emission standards, prohibiting older vehicles that do not meet the cleanest low-emission standards, and instituting differential fees so lower-emitting taxis and vans pay lower access fees.	Completed. [taxi companies required to provide at least 25% of trips by lowest-emission SULEV or CNG vehicles, and reduced trip fees given to taxis and door-to-door shuttle vans for such vehicles]

Attachment 3
Airport Master Plan: ARB Certification Status Report for 2017
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Condition	Status
13. By 2002, as a pilot program, purchase two new alternate-fuel buses that are lower-emitting than required by ARB's 2004 emission standards for heavy-duty buses.	Completed.
14. By 2002, install battery recharge stations at Gates 1-5 in Terminal A, and encourage and promote the use of electric ground support equipment to the maximum extent feasible in discussions and negotiations with airlines.	Completed/ongoing.
15. In conjunction with the installation of battery recharge stations at Gates 6-15 in Terminal A, encourage and promote the use of electric ground support equipment to the maximum extent feasible in discussions and negotiations with airlines.	Completed/ongoing.
16. In conjunction with the installation of 400 Hertz power at all 15 gates in Terminal A, encourage and promote the use of gate-based power to the maximum extent feasible in discussions and negotiations with airlines, and investigate the feasibility of installing preconditioned air in Terminal A.	Completed/ongoing. [all jet bridges installed under the TAIP have preconditioned air]
17. Install 400 Hertz power, preconditioned air, and battery recharge stations at all gates in Terminal B when constructed and Terminal C when reconstructed, and encourage and promote the use of such facilities and electric ground support equipment to the maximum extent feasible in discussions and negotiations with airlines.	Completed/ongoing.
18. If the Airport constructs an alternative fueling facility for departmental vehicles, make that facility accessible to the public.	Completed/ongoing.
19. By 2005, consolidate the rental car operations by constructing a centralized on-airport facility and creating a shuttle system to reduce the number of trips made by rental car vehicles.	Completed.
20. By 2005, use alternate-fuel buses that are lower-emitting than required by ARB's 2004 emission standards for heavy-duty buses in the shuttle system for the new rental car facility.	Completed.
21. Install compressed natural gas and battery recharge stations when new airline maintenance and equipment facilities are constructed to support use of alternative fuel equipment.	Completed/ongoing.
22. By 2010, construct and operate an on-airport, electric-powered Automated People Mover to replace the existing shuttle bus systems between each terminal and between the terminals and the new rental car facilities.	Need for on-Airport APM eliminated in 2010 with construction of new rental car garage within terminal area as part of TAIP.
23. Upon request from the BAAQMD, provide data on activity levels needed to calculate air pollutant emissions from aircraft operations, ground support equipment, and ground transportation vehicles.	Ongoing.
24. Submit an annual report to the City Council, ARB, and BAAQMD on the Master Plan, including mitigation measures and certification conditions.	Ongoing.