

Lockheed Martin Space Systems Company, Sunnyvale Commute Alternatives Program

Program Statement

A. Program Summary

Since the early 1970's, Lockheed Martin Space Systems Company (LMSSC) at Sunnyvale and Palo Alto, California, has implemented a Commute Alternatives Program (CAP) to assist employees with their commute issues, reduce traffic congestion impacts, reduce energy consumption, and improve air quality. The Commute Alternatives Program includes:

- Free annual transit pass (Eco Pass)
- Twice yearly transit and vanpool reimbursement
- Intracampus shuttle service with service to VTA bus and light rail transit center
- Compressed work week
- Flexible work hours
- Emergency ride home service
- Shuttles to and from transit stations
- Electric and hybrid fleet vehicles
- Telecommuting
- Campus yellow bike program

Of LMSSC's nearly 8,000 Silicon Valley employees, approximately 2,325 employees or 29% participate daily in carpooling, bicycling, telecommuting or using public transit for their work commute in 2008. Due to a compressed work schedule, telecommuting, company supported public transportation and carpooling, LMSSC has estimated a reduction of 6,900 tons of carbon dioxide (CO₂), a form of greenhouse gas contributing to global warming, from being emitted into Silicon Valley or savings of 772,050 gallons of fuel in 2008.

LMSSC is committed to continual improvement of the CAP. In 2009, LMSSC is raising the bar and setting a goal of increasing the program participation for the Silicon Valley employees by an additional 2%.

B. Program Description

1. Leadership

Although there is no regulatory driver for Commute Alternatives programs, Lockheed Martin Space Systems Company (LMSSC) recognized early the benefits of implementing a Commute Alternatives Program. These benefits include improving air quality, conserving energy and alleviating traffic congestion. Since the 1970s, LMSSC has been a model of excellence in Silicon Valley in addressing these concerns.

Inasmuch as automobiles produce CO₂ emissions, which contribute to global warming in the San Francisco Bay Area, LMSSC recognizes that a successful commute program leads to lowering CO₂ emissions. Reducing traffic congestion and dependence on imported oil are also worthy goals.

Lockheed Martin Space Systems Company has met the National Standard for Excellence as a Bay Area's Best Workplace for Commuters as established by the United States Environmental Protection Agency since 2002.

In addition to LMSSC's model Commute Alternatives Program, LMSSC has taken an active role in commute transportation industry planning in the local community.

LMSSC has served twice as the Chair for the Silicon Valley Leadership Group (SVLG) Transportation Policy Committee (TPC), which seeks to increase the ease by which Silicon Valley employees, residents and cargo move through the Valley in a manner that minimizes impact on the environment. Recent activities include:

- Advocating for the successful passage of a \$9.95 billion state bond measure for the construction of California High Speed Rail
- Securing funding for the Bay Area Rapid Transit (BART) extension to Silicon Valley, including the successful passage of Prop B, a ½ cent sales tax measure to provide operating funds for BART
- Advocating for priority funding for transportation infrastructure, traffic improvements, alternative fuel and hybrid technology development
- Increasing the sales tax on gasoline for transportation infrastructure projects, including transit.

In addition, LMSSC executive staff championed the SVLG Cool Commutes challenge in 2007, which is described in the “Potential Model for Businesses Community” section.

LMSSC is the past Chair, and currently sits on the executive board of the Moffett Park Business and Transportation Association (MPBTA). The objective of MPBTA is to promote alternate commute options for its member employers, and the organization acts as a common voice in the advocacy of traffic mitigation solutions.

LMSSC participates in the Bay Area Air Quality Management District’s Spare the Air Employer Leadership Council, a committee comprised of select Bay Area employers that works to develop the focus and implementation plan for the summer and winter Spare the Air programs.

LMSSC has served on the executive committee of the Association for Commuter Transportation (ACT), both regionally and nationally. ACT helps members improve the effectiveness of their transportation systems.

2. Significant Environmental Benefits

The LMSSC CAP has made significant strides in reducing environmental impacts and traffic congestion. In 2008, CAP’s alternative work schedule, telecommuting, public transportation and carpooling elements were estimated to have saved more than 6,900 tons of CO2 emissions or 772,050 gallons of fuel.

The compressed work schedule (“9/80”) was implemented at LMSSC several years ago. The 9/80 schedule allows employees two days off a month, offset by increased hours on the other working days. This adjustment reduces four commuting trips per month for each participating employee. In 2008, LMSSC estimated reductions of over 2,214 tons of CO2 emissions or 239,062 gallons of fuel as a result of this activity. In addition, employees who telecommuted reduced approximately 700 tons of CO2 emissions or saved 75,613 gallons of fuel.

Through the Eco Pass program (started in 2002), LMSSC provides employees at the Sunnyvale facility a free annual transit pass good for all Valley Transit Authority (Santa Clara County transit) bus and light rail services, seven days a week. LMSSC provides shuttles between the work campus and transit locations. In 2008, LMSSC implemented the Transit Incentive Program, which allows employees who use transit or vanpool to receive a \$120 reimbursement twice per year. LMSSC employees may also participate in the pre-tax commuter benefit program, implemented in late 2007, which allows employees to pay for transit and vanpool expenses with pre-tax dollars. Use of public transportation in 2008 resulted in a reduction of approximately 2,568 tons of CO2 emissions or 277,248 gallons of fuel.

San Francisco Bay Area LMSSC employees have access to the 511 Regional Rideshare Program and AlterNetRides, two different carpool/vanpool matching databases, to find commute partnerships. Employees who carpool a minimum of three days per week are eligible for a preferential carpool parking space in close proximity to the major buildings. Carpooling alone is estimated to have reduced approximately 2,214 tons of CO2 emissions or 189,033 gallons of fuel in 2008.

To encourage bicycle ridership, LMSSC provides bicycle lockers, racks and showers at the facility. Also, an internal commute website gives Sunnyvale employees access to current commute information including transit schedules, carpool/vanpool matching services, StarShuttle and bicycle information. To encourage use of public transportation, ridesharing and biking to work, LMSSC provides to its employees a free ride home in the case of illness or personal emergency.

To further reduce personal vehicle use, LMSSC offers the onsite StarShuttle to get around the Sunnyvale campus, a fleet of 127 electric forklifts and carts, 25 hybrid vehicles and a fleet of 250 company bicycles. These vehicles offer employees alternative methods for getting around the 80-acre campus. In 2008, the StarShuttle made approximately 142,000 passenger trips, eliminating a tremendous number of cold starts; thus, further reducing our carbon emission outputs.

LMSSC also has an on-site fitness center and cafeteria and provides on-site dry cleaning and oil changes, so employees do not have to do additional driving for those services. Ample resources are available for teleconferencing and videoconferencing to further lessen travel between buildings on-site and to remote sites.

3. Potential Model for Businesses Community

The breadth of the Lockheed Martin Space Systems Company (LMSSC) program lends itself to be transferred to other companies either whole or in part. LMSSC regularly meets with other companies in Silicon Valley and across the nation to share ideas and best practices for commute alternative improvements and transportation, as well as plan joint promotions.

Lockheed Martin led the 2007 Cool Commutes challenge sponsored by the Silicon Valley Leadership Group and will participate in the program in 2009. Cool Commutes is a challenge for companies in Silicon Valley to reduce greenhouse gases through promotion of alternative commute programs. Part of the Cool Commutes Program is participation in a workshop where companies share strategies and best practices on increasing the impact of existing programs, as well as help companies launch alternative commuting programs.

LMSSC has served as co-chair of the Association for Commuter Transportation's Employer Council, which is comprised of employers across the nation who work on commute issues and topics of mutual interest, including benchmarking and sharing of best practices. LMSSC recently participated in a nation-wide benchmarking survey and was able to provide useful information to other companies about its Commute Alternatives Program.

LMSSC also participates in the Moffett Park Business and Transportation Association's Employee Transportation Coordinator Network, a group of other neighboring employers in the business park in which Lockheed Martin resides, including Yahoo, NetApp and Juniper Networks. The group meets monthly to discuss commute-related topics such as new alternative fuel technologies, programs, events and promotions. LMSSC regularly participates in this group and frequently shares information about the Commute Alternatives Program, including the Yellow Bike program, the bike safety program, StarShuttle operations and on-site promotions.

LMSSC employees benefit from the Commute Alternatives Program (CAP) in various ways. In addition to saving wear and tear on personal vehicles, they are reducing the stress of commuting to work every day. Employees also take pride in the fact that they are doing their part in reducing their impact on the environment by reducing the amount of pollutants emitted from commuting activities.

LMSSC customers have demonstrated increased concern with environmental impacts of the processes creating their products. LMSSC has been able to show them that great care is taken to preserve and enhance the environment, through the CAP and other environment-related programs.

The benefits to the community and environments are clear with less traffic congestion and reduction of over 6,800 tons of CO2 emissions in one year. LMSSC is committed to being a good neighbor in the communities where the

employees live and work. Although alternative commute modes won't end global warming, collective actions can decelerate the process and inspire others to become part of the solution.

4. Demonstrating Program Commitment

"Lockheed Martin, and its employees, has been a member of the Silicon Valley community for over fifty years and cares deeply about the Valley's quality of life. We are proud of our continuing commitment to making Silicon Valley a better place to live and work." - S. K. Gupta, Vice President - Operations, Lockheed Martin Space Systems Company.

From the upper levels of management to the floors of the production areas, LMSSC employees take an active part in reducing impacts on the environment. Of LMSSCs nearly 8,000 Silicon Valley employees, over 2,325 employees, or 29%, participated in carpooling, bicycling, telecommuting or using public transit to commute to and from work daily in 2008. Leading the Cool Commutes challenge described in the previous section demonstrates the LMSSC commitment to increased use of alternative commute methods.

Since the 1970's, LMSSC has had a dedicated commute coordinator and since the 1980's, there has been a commute alternatives manager, who works on employee commute issues, including education and promotion of programs and services that impact LMSSC employees and advocacy for enhanced and new external services.

One example of LMSSC executive management's commitment to commute options and bicycling is the annual Bike to Work Day group ride and celebration. Commenced in 2007 and continued in 2008, LMSSC executive leadership sponsors and leads a Bike to Work Day ride and celebration for employees who commit to bicycle to work on that day.

The on-site Yellow Bicycle Program, implemented in late 2006, has been so successful that LMSSC Sunnyvale has already committed to expanding the on-site company bicycle fleet by over 50% in 2009, which will bring the total number of bicycles in the fleet to 375. The Commute Alternatives Program will continue lobbying for funding for environmental and transportation funding, as well as taking an active part in other green initiatives. Efforts to bring BART to Santa Clara County continue, as well as ferry transit across the bay.

The Commute Alternatives Program also implements the Spare the Air Program, established by the Bay Area Air Quality Management District to educate people about air pollution and to encourage them to change their behavior to prevent it.

5. Collaborative Effort

In addition to leading the groups in our community as past Chair for Silicon Valley Leadership Group (SVLG) Transportation Policy Committee (TPC) and sitting on the executive board of the Moffett Park Business Transportation Association (MPBTA), as described in the "Leadership" section, Lockheed Martin Space Systems Company (LMSSC) Commute Alternatives Program (CAP) department works with several internal departments to broaden the program's scope, strength and reach.

In addition to the groups described under the "Leadership" section, LMSSC is involved in the Bay Area Council Transportation Committee which works to improve transportation convenience and reliability for all San Francisco Bay Area residents and businesses.

LMSSC also collaborates with the Santa Clara Valley Transportation Authority and Altamont Commuter Express (ACE) to fund the ACE Red shuttle, which provides service from the Great America ACE station to Lockheed Martin. This shuttle is open to the public and serves neighboring employers in Moffett Park as well as LMSSC.

The Commute Alternatives Program teams with LMSSC's internal Wellness department and Environment, Safety and Health (ESH) department to implement and enhance programs and activities, including an annual

Environmental Fair and hybrid test drive event and bike safety program. The CAP department also works closely with the Communications department to ensure that current and new programs are well-advertised. Employees receive information about the CAP via webpage, electronic television and newsletters. Communications from the CAP program are also sent to management to share at staff meetings.

