massport
connecting to our environment

MASSPORT ENVIRONMENTAL INITIATIVES

MASSPORT IS INTERNATIONALLY RECOGNIZED FOR ITS ENVIRONMENTAL INITIATIVES. THE AUTHORITY PROMOTES A NUMBER OF INNOVATIVE AIR QUALITY EMISSIONS REDUCTION PROGRAMS. MASSPORT OWNS AND OPERATES THE NATION'S FIRST ISO 14001 AIRPORT, CONTAINER TERMINAL AND BRIDGE. BOSTON LOGAN INTERNATIONAL AIRPORT HAD ONE OF THE FIRST AND MOST EXTENSIVE RESIDENTIAL AND SCHOOL SOUND INSULATION PROGRAMS IN THE NATION; THE AIRPORT IS HOME TO THE FIRST LEED-CERTIFIED AIRLINE TERMINAL IN THE WORLD. BRIEF SUMMARIES OF KEY AGENCY-WIDE AND LOGAN-SPECIFIC PROGRAMS ARE PROVIDED BELOW.

AGENCY-WIDE

Massport Environmental Policy

Massport's environmental policy which was developed in 2000 outlines its commitment to operate all facilities in an environmentally sound and responsible manner.

Sustainability Plan/Sustainable Design Initiatives

In 2004, Massport developed its first Sustainability Plan, building on the 2000 Environmental Policy. The Plan established an internal sustainability team, established short-term and long range goals related to reducing emissions and waste, as well as increasing the use of alternative fuels. The Plan also formalized the Environmental Management System (EMS) priorities and tracking mechanisms.

LEED® Goals

Massport embraced sustainable design and construction well before the U.S. Green Building Council's LEED® program became a household term. In 1999, Massport required the new Terminal A to incorporate green building practices. This resulted in Terminal A becoming the world's first LEED®-Certified terminal in 2006. The new Signature general aviation facility is the second LEED®-Certified building at Logan. The Hancock/Manulife building on Massport property is one of the first LEED® buildings in South Boston. Massport has incorporated LEED® goals in all new development and redevelopment projects for the past several years.

Recycling Initiatives

Massport's recycling program started at Boston Logan in 2005 and now includes all passenger areas as well as the Logan Office Center and Massport's community parks in East Boston and South Boston. The program includes recycling of mixed paper and plastic, aluminum and glass, and the primary goals are to reduce solid waste and increase awareness about recycling. Several airlines at Logan recently started recycling trash from aircraft.

Energy Management/Conservation

Massport's energy management efforts focus on three primary areas: 1) energy efficiency – reducing electricity, gas, and water consumption for both the Authority and its tenants; 2) infrastructure – securing and maintaining a reliable utility infrastructure, ensuring greater energy security and reliability; 3) and competitive procurement of energy commodities.

Based on survey data of electricity consumption at terminal buildings, the Clean Airport Partnership ranks Boston Logan's terminals among the top three airports for most efficient terminal buildings.

As part of our energy commodity purchases, 1.5% of our competitive electricity supplies come from renewable resources and we will expand that to more than 15% by 2010. In addition, substantial capital investments in energy efficiency have been made including lighting retrofits, chilled water variable speed pumping, variable speed drives and automated building controls.

In March 2008, Massport installed miniature wind turbines on the rooftop of the Logan Office Center as part of a wind energy pilot program that may expand to include other Massport facilities.

ISO 14001/Environmental Management Systems (EMS)

International Standards Organization (ISO) 14001 certification is focused on minimizing harmful effects to the environment caused by Massport's activities, and achieving continual environmental performance improvement. ISO certification is one element of Massport's comprehensive strategy to ensure that all Massport facilities are operated in an environmentally sound and responsible manner. An Environmental Management System (EMS) is a tool that enables an organization to control the impacts of its activities and services on the environment. The EMS initiatives support Massport's overall corporate goal of becoming a sustainable organization. In 2001 Hanscom Field was the first U.S. airport to obtain ISO 14001 Certification for their EMS. In 2003 the Conley Container Terminal was ISO certified and that facility has installed oxidation catalysts on a number of tractors and reach stackers. More than 100 vehicles and pieces of maritime equipment use ultra-low sulfur diesel fuel. In February 2006, the Tobin Memorial Bridge became the first bridge in the nation to receive ISO certification. In December 2006, Logan's Field Maintenance Facility was ISO certified. EMS's for additional Logan facilities are currently under development.

Continued

MASSPORT ENVIRONMENTAL INITIATIVES - continued

AltWheels Festival

Massport has supported and sponsored AltWheels since its inception in 2003 as a forum to promote alternative fuels and sustainable transportation modes. Historical involvement includes financial sponsorship, staff presentations at an MIT symposium, exhibiting Massport altfuel vehicles on Fleet Day and hosting an exhibit booth for the festival duration. Massport CNG shuttle buses transport attendees between designated locations and events.

BOSTON LOGAN INTERNATIONAL AIRPORT

Environmental Reporting (EDR/ESPR Process)

Since 1979, Massport has prepared annual environmental reports describing the status of operational and environmental conditions at Logan. The Environmental Status and Planning Report (ESPR) and the Environmental Data Report (EDR) provide the framework for cumulative impact assessment of airport operations.

Logan Air Quality Initiative (AQI)

Massport developed a voluntary emissions reduction initiative in 2001 that is designed as a 15-year plan to keep nitrogen oxide (NOx) emissions associated with Logan Airport at or below 1999 levels. Details of the AQI are presented annually in the Logan EDR.

High Occupancy Vehicle (HOV) Goals

Massport has a long-range goal to reduce reliance on travel to Logan in single occupancy vehicles. Nearly 30% of all passenger/employee trips are in HOV; this is second only to the San Francisco International Airport for U.S. airport HOV ridership. The Logan Express services are a key component of this program and Massport undertakes employee and passenger surveys periodically to track achievement of this goal.

Logan Airport Silver Line Service

Massport has entered into a $30 million, 10-year cooperative program with the MBTA to provide Silver Line service to each airport terminal. To facilitate employee and passenger use of this service, Massport and the MBTA also collaborated on the installation of CharlieCard machines in all terminals.

12,000,000 CNG Bus miles

In 2008, Logan's 26 shuttle buses logged their 12-millionth clean air mile.

400 HZ Power at All Gates

Massport has completed the installation of 400 HZ power at all aircraft gates to minimize use of diesel-powered aircraft auxiliary power units (APU) and their associated emissions.

CleanAir Cabs Incentive

In cooperation with the City of Boston, Massport implemented an incentive program for CleanAir Cabs in the spring of 2007, providing head-of-line privileges to encourage the usage of low emission alternative fuel vehicles for taxi service at Logan. To further promote this service, Massport implemented a policy change in July 2008 allowing customers to request a CleanAir Cab at every Logan taxi stand.

Logan Clean Vehicle Preferred Parking Program

Preferred parking is offered as an incentive to encourage Logan passengers to drive to the airport in clean fuel vehicles, when high occupancy vehicle (HOV) opportunities do not fit individual travel plans.

Alternative fuel locations

Logan houses one of the largest CNG fueling stations in New England. For electric vehicles, there are charging stations located in the airport garages. In addition, there is an E85 tank and pump in the gas station at the airport to support "Flex-fuel" vehicles.

Warm Mix Asphalt

Boston Logan is the first airport in the nation to use a more environmentally friendly pavement. Massport spent $6.3 million repaving Runway 4R/22L with so-called "warm mix" asphalt which is heated to between 250 and 275 degrees, some 75 to 50 degrees less than traditional "hot mix" asphalt. This resulted in the reduction of nearly 2,000 tons of carbon dioxide, the savings of about 200,000 gallons of diesel fuel, and produced an energy savings of about 26.4 billion BTUs. Approximately 18% of the new asphalt was made from recycled content. Massport plans to use "warm-mix" asphalt to pave Runway 9/27 later in 2009 and will continue to use this innovative pavement for future projects as appropriate.