DIA: SUSTAINABILITY WITH ATTITUDE

Notable environmental performance enhancement activities and accomplishments:

- Energy-reduction initiatives
- Organics collection and composting in the terminal concessionaire spaces and Airport Office Building
- Paper-reduction initiatives
- Celebrated Earth Day with community outreach events
- Fleet vehicle engine retrofits and replacements for environmental improvements
- Numerous outreach and educational events, plus training, presentations, and industry tours
- Promoted environmental programs through magazine articles
- DIA collected 1,658 tons of recyclable material out of its municipal solid waste stream, including 57.5 tons of wood pallets, 766 tons of cardboard, and 89 tons of organics

In addition, DIA recycled the following commodities, primarily from its maintenance activities:

- More than 2,600 batteries
- 88,673 pounds of electronics
- 6,492 pounds of fluorescent lamps
- 371 tons of scrap metal
- 20,000 tons of concrete
- 726 gallons of solvent

RENEWABLE ENERGY – SOLAR

Beginning in 2008, DIA, along with private-sector partners, has pursued the development of on-site solar photovoltaic systems to offset some of its electricity usage.

- **FIRST PROJECT** – A direct-current single-axis flat tracking system constructed along Peña Boulevard, leading to the entrance to DIA. Output: 2 megawatts

- **SECOND PROJECT** – A direct-current fixed-tilt system constructed adjacent to the airport’s fuel farm. The solar array supplies the fuel farm’s electrical needs. Output: 1.6 megawatts

- **THIRD PROJECT** – In late 2010, construction began on an additional direct-current fixed-tilt system, equal in size to the other two solar installations combined. This array is in DIA’s northeast quadrant, with completion June 2011. Output: 4.4 megawatts

- Electric power purchase agreements with the private partners are in place

- Altogether, these systems produce 6 percent of DIA’s total power requirements. The output makes DIA the largest distributed generation photovoltaic energy producer in the state of Colorado.

WEASTE MANAGEMENT: DIA continues to explore new initiatives toward reaching the airport’s strategic plan goal of becoming a zero-waste facility by 2020.

- **STUDIES** – Waste composition studies done in 2010 reveal that 70 percent (up to 7,000 tons) of DIA’s waste is recyclable or compostable

- **COMPOSTING** – With the assistance of 14 food concessionaires in the Jeppesen Terminal, DIA is diverting 10 tons of organic material per month from the landfill. This waste is hauled to a composting farm operated by A-1 Organics, where it is transformed into high-grade compost for residential and agricultural purposes.

- **RECYCLING** – Each year, along with organic waste, DIA keeps 1,600 tons of recyclable material, such as wood, glass, plastic, paper, cardboard, and aluminum from the landfill. Participants in this program include all Department of Aviation offices, tenants, food concessionaires, and the airlines.

- **WASTE REDUCTION** – In 2001, 0.64 pounds of waste per passenger was sent to the landfill. DIA reduced this to 0.43 pounds per passenger in 2010, with a diversion rate of 13 percent.

SOCIAL AND CULTURAL PROGRAMS AT DIA

DIA employees and DIA business partners are engaged in many activities that benefit our community:

- Donations to local nonprofit agencies
- Blood drives (six events; average of 41 units collected per drive)
- Clothing donations (from DIA Lost and Found) to Denver Human Services (4,623 items)
- Denver Employee Volunteer Opportunities (DEVO) – house painting for elderly, low-income residents
- Christmas party for foster kids (in partnership with Denver Human Services)
- Temporary art exhibitions – Five galleries featuring more than 20 exhibitions each year
- Permanent art installations

AIRCRAFT DEICING FLUID: DIA collects runoff from deicing areas to comply with the state-issued industrial stormwater permit. For the 2009-2010 deicing season:

- **DIA collect 71 percent of the total amount applied (best collection rate in the country)**
- Of the collected runoff, DIA recycled 72 percent
- The remaining collected runoff (28 percent) was sent to Metro Wastewater for treatment

- **MANAGING THE ENVIRONMENT 2010 ANNUAL REPORT**
Taking Environmental Stewardship to New Heights is one of the five strategic priorities of Denver International Airport. This report discusses the annual objectives set by DIA's Environmental Management System (EMS) and highlights the 2011 accomplishments and initiatives.

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

DIA is the only U.S. international airport that has designed and implemented a certified EMS that encompasses the entire airport. Certification (ISO 14001) comes from the prestigious International Organization for Standardization. It is estimated that DIA's EMS results in over $100,000 in annual insurance premium savings. Originally certified in 2004, DIA's EMS is a mature system that provides a framework for the airport to identify, prioritize, and manage the significant aspects of its operations that could impact the environment. DIA's EMS focuses on identifying, developing, and implementing programs to address potential impacts from significant environmental aspects, and to improve environmental performance. (For a list of DIA's significant environmental aspects, go to the environmental section of DIA's website: business.flydenver.com/environmental, and click on the link.)

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2010 ENVIRONMENTAL PERFORMANCE REPORT CARD

In 2010, DIA set aggressive annual targets for decreasing gasoline and electricity usage, reducing solid and hazardous wastes, and for greening DIA's airfield. DIA's targets toward these targets are illustrated below.

Transportation Energy Use by Fuel Type (Gasoline)

Target: Decrease by 1 percent the gallons of gasoline used per gasoline vehicle per year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Baseline</th>
<th>Goal</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>139,006 gallons / 424 vehicles</td>
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<td></td>
</tr>
<tr>
<td>2010</td>
<td>139,006 gallons / 424 vehicles</td>
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Non-Transportation Energy Use (Electricity)

Target: Decrease by 1 percent the annual kilowatt hours used per passenger.

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</thead>
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<tr>
<td>2009</td>
<td>6,074,218 kWh / 21,092,133 passengers</td>
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<td>6,074,218 kWh / 21,092,133 passengers</td>
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Non-Hazardous Solid Waste Generation

Target: Decrease the amount of city-generated hazardous waste by 1 percent annually (note: excludes universal waste).

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<th>Actual</th>
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<tbody>
<tr>
<td>2009</td>
<td>10,770 tons / 52,209,770 passengers</td>
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<tr>
<td>2010</td>
<td>10,770 tons / 52,209,770 passengers</td>
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Removing Solid Waste

Target: Maintain an applied-to-collected ratio of 69 percent for aircraft deicing fluid.

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<td>2009</td>
<td>69 percent</td>
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Waste Composting

Target: Increase the collection ratio of 71 percent.

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Wastewater Treatment (other than domestic wastewater) at DIA

Target: Maintain a wastewater treatment ratio of 72 percent.

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