

INFORMATION SHEET

OKLAHOMA CITY AIR LOGISTICS CENTER

TINKER AIR FORCE BASE, OKLAHOMA



POLLUTION PREVENTION

Tinker Air Force Base leads the Air Force in reducing toxic emissions and introducing new industrial technologies, which eliminate hazardous waste, save time and money, and make the workplace and environment much safer.

Tinker's Toxic Release Inventory chemical releases fell 83 percent since 1994, from 1.6 million pounds to 272,000 pounds. Annual hazardous waste disposal was reduced by 73 percent, from 16.5 million pounds to 4 million pounds. Each year, Tinker reclaims, recovers, reuses, recirculates, and recycles more than 881 tons of hazardous materials and wastes, avoiding more than \$0.6 million in costs. Tinker's sophisticated systems track air emissions, discharges to bodies of water, flight line runoff, and hazardous and nonhazardous solid wastes requiring disposal.

Solid waste disposal reductions at Tinker exceeded Air Force goals and were completed 3 years ahead of schedule. Each year, recycled materials on base include about 24 million pounds of metals, glass, paper, tires, plastics, and concrete. More than 100 million pounds of concrete have been reused in the concrete recycling program.

WORKING TO PROMOTE POLLUTION PREVENTION

Promoting communication across the base, Tinker's Working Groups help make pollution prevention the preferred way of doing business on base by:

- Linking hazardous material purchases, requirements, uses, and disposal methods
- Identifying pollution prevention needs and priorities
- Linking all pollution prevention efforts to one responsible authority

Pollution prevention awareness is also promoted through our partnerships with industry, utilities, laboratories, schools, and the community. Through its actions and services, Tinker demonstrates a commitment to environmental sustainability so that future generations can continue to enjoy the world's resources.

EXAMPLES OF POLLUTION PREVENTION PROCESSES FOR STRIPPING, CLEANING, AND ELECTROPLATING AIRCRAFT



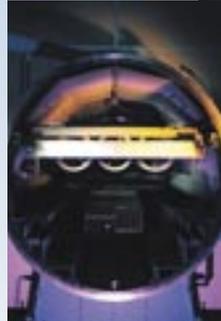
Environmentally friendly strippers like benzyl alcohol reduced toxic chemical use by more than 80 percent.

Cleaner solvents like efficient detergent and high-pressure spray washers replaced more than 14 vapor degreasers used for parts cleaning and made working conditions safer.



High velocity oxygen fuel (HVOF) electroplating will reduce chromium use by 40 percent and will dramatically reduce wastewater treatment and hazardous waste disposal costs.

Water strippers replaced phenolic paint stripping, which reduced methylene chloride use by 140,000 pounds, facility hazardous waste by 100,000 pounds, and wastewater by 8.3 million



Friendlier plating processes like ion vapor deposition electroplating reduced annual wastewater discharges by 19 million gallons and hazardous waste by 228 tons.



The Environmental Management (EM) Directorate, created in 1985, manages environmental issues at Tinker.

For more information, contact:

OC-ALC/EM, 7701 Arnold Street, Suite 204, Tinker AFB, OK 73145-9100

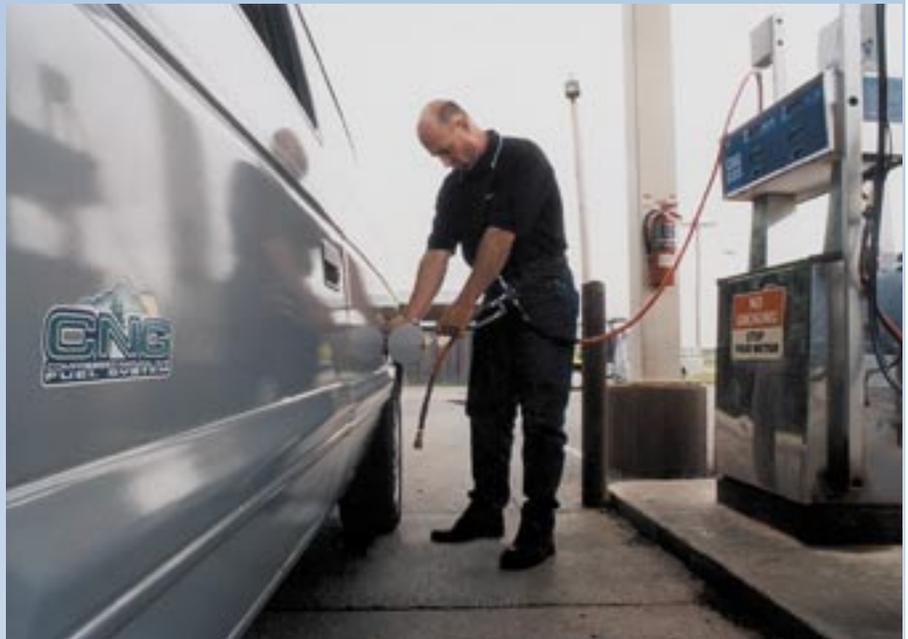
(Tel) 405.734.4111 (Fax) 405.734.4210

<http://www-ext.tinker.af.mil/em>

ALTERNATIVE FUELS VEHICLE PROGRAM

COMPRESSED NATURAL GAS

Recognized by the Air Force for its model Alternative Fuels Vehicle Program, Tinker is the Department of Defense leader in using compressed natural gas (CNG) for vehicles. By converting more than 270 gasoline-powered vehicles to gasoline and compressed natural gas, Tinker reduced air toxics, ground level ozone, and carbon dioxide by more than 8,400 pounds per year, and gasoline and diesel fuel consumption by 25 percent.



BIODIESEL

Tinker is the first Air Force Materiel Command base to use biodiesel fuel in diesel vehicles. Made from vegetable oils and recycled restaurant grease, biodiesel is cheaper, safer, and cleaner. It reduces cancer-causing air toxins by 75 to 90 percent compared to diesel fuel.

PROPANE AND ELECTRIC

Tinker also converted aircraft tugs and lifts to propane and electric power, which has noticeably reduced air emissions.



ELECTRIC

Twelve neighborhood electric vehicles in Tinker's fleet, models for the future, cost only pennies per mile to run with no air emissions. The long-wide utility models have a 70-inch-long by 48-inch-wide bed. Designed for driving in and around small communities and large industrial sites, the cars meet federal Low Speed Vehicle requirements and can operate on roads posted at 35 miles per hour or less. They have a driving range of 30 to 35 miles, and charge batteries in 8 hours with a 25 percent charge in the first hour in a 110-volt household outlet. Highly visible in traffic, the vehicles stand as tall as a minivan. The panoramic view from inside makes them easy to maneuver in tight spaces.

