



LAS VEGAS READINESS CENTER LAS VEGAS, NEVADA

32.0% energy savings

24.0% water savings

52.0% waste diversion resulting from recycling program

LEED Facts

Las Vegas Readiness Center
Las Vegas, Nevada

LEED for Existing Buildings Operations and Maintenance
Certification awarded November 11, 2010

Silver **49**

Sustainable Sites 4/12

Water Efficiency 4/10

Energy & Atmosphere 12/30

Materials & Resources 10/14

Indoor Environmental Quality 12/19

Innovation & Design 7/7

*Out of a possible 92 points

LAS VEGAS READINESS CENTER

Readiness Center Receives LEED Silver Certification

PROJECT BACKGROUND

The Nevada National Guard Las Vegas (Henderson) Readiness Center was constructed in 2006 to replace facilities constructed in 1972 inadequate to appropriately support the units stationed in southern Nevada. The facility provides modern facilities meeting current and future assigned military unit needs for years to come. The 79,000 SF Readiness Center houses the 992nd Troop Command, 440th Signal Company, 777th Engineer Utility Team and a Medical Detachment established in 2007. The center provides the necessary facilities and environment for these units to achieve mission readiness for the continuing global war on terrorism, as well as missions assigned by the Governor of the State of Nevada. The facility includes assembly areas, complete kitchen facilities, classrooms, administration areas, material storage areas, work bay, and locker room with restroom facilities. The facility, originally designed to the Army's SPiRiT Gold standard (the Army's Sustainable Project Rating Tool was based on LEED-NC 2.0), is the first Army project to seek and achieve certification under the USGBC's LEED for Existing Buildings.

STRATEGIES AND RESULTS

The Las Vegas Readiness Center employs sustainable practices in the maintenance of building exterior and hardscape, integrated pest management, erosion control, and landscape maintenance. Written policies and management plans were developed to describe these practices and policies. Only native and adapted species of landscaping material are employed on the project along with an efficient, automatically controlled drip irrigation system which produces a 73% reduction in potable water use compared to the baseline. Efficient plumbing fixtures produce a 24% reduction in water use compared to the baseline. Highly reflective roofing materials help mitigate the roof heat island effect on the site.

The facility utilizes an enhanced building envelope, efficient windows with sunshades, a building energy management system and an efficient central plant to provide heating and cooling. As a result, the project qualifies for an Energy Star Rating of 81, which means that it performs better than 81% of similar building in the area.

Sustainable purchasing practices for the acquisition of on-going consumables, durable goods, computer equipment, cleaning supplies, and low mercury lamps reduce the facility's impact on the environment. An ongoing solid waste management program recycles ongoing consumables and durable goods reducing the amount of waste sent to landfills. A high performance green cleaning program including purchase of environmentally friendly cleaning chemicals and the use of walk-off mats maintains a clean, wholesome indoor environment. A ventilation rate 30% in excess of that required by ASHRAE standards provides plenty of clean outdoor air to occupants.

"This is the First Post LEED certified building for the Nevada National Army Guard. This Post certification is a tribute to our strong commitment to Energy and Environmental Design."

Quote Attribution: CPT. Daniel Thielen, acting FMO, Nevada Army National Guard



Nevada National Guard

Architect: Ganthner Melby, LLC, Architects & Planners

Sustainability Consultant: Golden Engineering

Project Size: 79,000 square feet

Total Project Cost: \$15,815,953

Photography Courtesy of: Ganthner Melby, LLC, Architects & Planners

ABOUT LEED

The LEED green building certification program is the national benchmark for the design, construction, and operations of green buildings. Visit the U.S. Green Building Council's Web site at www.usgbc.org to learn more about LEED and green buildings.

Nevada Army National Guard
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Construction and Facilities Management Office

