

Snow Removal Equipment Building

Building Project Fact Sheet



Project Description:

This two-story, 58,800 square foot steel-framed and pre-cast concrete building will provide drive-through maintenance and vehicle storage areas incorporating 30-foot wide, 16-foot high overhead doors. Designed for the staging, storage, maintenance, and management of more than 30 airfield snow removal vehicles and equipment, the building will feature drive-through maintenance bays sized to accommodate the airport's fleet of 65-foot-long plow-broom combination vehicles; an on-site welding and fabrication bay; a maintenance bay for two light vehicles; a drive-through vehicle wash bay, which also incorporates a station for loading liquid runway deicer trucks; a vehicle staging and storage area; and a snow operations office. The adjacent site will provide a vehicle fueling station and sand storage facility for landside operations.

Architect:	Mead & Hunt – Madison, Wisconsin
General Contractor:	Miron Construction Co., Inc – Neenah, Wisconsin
Construction Duration:	March 2013 – November 2013

Environmental Facts:

- LEED silver building design will ensure energy savings, greenhouse gas emission reductions, water efficiency, improved indoor environmental quality, and increased recycling and materials reuse.
- Geothermal heating and cooling system.
- 100-kilowatt rooftop photovoltaic system which will generate up to 135,000 kilowatt-hours per year, the annual equivalent to the usage of 12 typical American homes – creating the largest solar energy system in the MG&E service area and the largest municipal solar project in the state.
- Maximizing natural daylight and views to save energy.
- Water efficient plumbing fixtures providing a 40% reduction in potable water use.
- Mechanical systems will be 40% more energy efficient than a standard building; CO and NO2 sensors will automatically control the air flow based on the occupancy and use of the building.

Brent S. McHenry, Marketing Communications

McHenry.brent@msnairport.com

608-661-6442 or 608-575-6338



Dane County Regional Airport – March 20, 2013

Snow Removal Equipment Building

Building Project Fact Sheet



Facility Facts:

- The facility will house 6 Runway Plow Trucks (each with 22 ft. wide plows), 6 tow-behind powered brooms (20 ft. wide ea.), 2 sander trucks (22 ft. plows), 2 liquid deicer trucks (4,000 gal. ea.), 3 truck-mounted, high capacity snowblowers, 1 loader-mounted snowblower, 3 wheel loaders (w/20, 30 or 33 ft. ramp plows), 3 tractors (snowblower, snowplow attachments), and several other smaller snow removal vehicles and equipment.
- 14 maintenance personnel (plus 6 floating staff as needed) will be based in the facility.
- All vehicular access doors (interior and exterior) measure 30 feet wide x 16 feet high.
- 10-ton bridge crane spanning all large vehicle maintenance bays.
- Two light vehicle lifts: one with a 12,000 pound capacity and one with a 18,000 pound capacity.
- A broom build-up/tear-down area with a 2-ton jib crane to maintain runway broom components.
- 900 square foot parts storage room, plus mezzanine storage for oversized equipment and supplies.
- Built-in lubricant storage and distribution system.
- An indoor wash/maintenance bay to allow large plow-broom combination vehicles to be cleaned and maintained, and deicer trucks to be filled inside during adverse weather conditions.
- A training room to provide on-site operator and maintenance technician training.
- A snow operations office to coordinate staffing, equipment, and maintenance requirements during snow and ice removal events.

Material Facts:

- 400 tons of structural steel will be used.
- 268 structure supporting precast concrete wall panels will be placed.
- 10,000 tons of concrete will be used.
- 162 roof trusses will be installed, heights varying from 2 feet to 6 feet, with clear spans of up to 106 feet.
- Nearly 1,000 helical piles will be installed supporting the building and floor structure.
- Site paving will contain approximately 48,000 cubic feet of concrete and 13,500 feet of blacktop.

Construction Facts:

- Zero Waste to Landfill project, which sends none of its non-hazardous waste to landfill. Recycling is one of five strategies, known collectively as the Five Rs – Refuse/Return, Reduce, Re-use, Recover/Reform, Recycle.
- Total amount of cut and fill estimated at 8,500 cubic yards.