

Yost Ice Arena Ice System Improvements



Project Description

The Department of Intercollegiate Athletics proposes a project that will upgrade the arena's ice rink floor, dasher board systems, and refrigeration system, as well as replace the flat roof on the building's north side.

Energy Efficiency Measures

- New energy efficient and high performance ice plant equipment
- New refrigeration system designed to capture and reuse a significant amount of the waste heat generated by the refrigeration system, which has been traditionally vented to the atmosphere, thereby reducing the use of natural gas and electricity required to operate the system

Other Sustainability Features

- Reduced the facilities carbon footprint by removing approximately 6,000 pounds of hydrochlorofluorocarbons (HCFCs) refrigerant and replacing with less than 800 pounds of an environmentally friendly and naturally occurring refrigerant with zero Ozone Depleting Potential (ODP) and zero Global Warming Potential (GWP)
- Minimized the amount of water used by the cooling tower through reduced operating time because of using more waste heat inside the building
- 15% fly ash in concrete mix design for floor in place of cement
- Recyclable plastics used where feasible within new dasher board system
- Construction waste sorted and recycled when possible

Project Data

- Budget: \$5.8 M
- Schedule: Completion Scheduled for Summer 2015
- Square Feet: 22,000 gross sq. ft. renovation

Substantially Complete: September 2015

- Project Status: Substantial Completion
- Design Complete: 100%
- Construction Complete: 95%