

Bowling Green State University

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EDUCATIONAL

Recreation Center Chiller Plant:

Until the start of this project, Bowling Green State University did not have any means of cooling for the Student Recreation Center. This facilitated the need for a dedicated chilled water plant to be constructed and cooling coils installed in all of the existing indoor air handling units. All work had to be completed while maintaining accessibility and use of this year round facility.

General Project Scope:

A new chiller plant was constructed adjacent to the existing Student Recreation Center building. The equipment installed for the new chilled water plant included two 375-Ton chillers, one two-cell cooling tower, and eight horizontal split case pumps. The piping from the plant was routed throughout the existing facility to ten indoor air handling units. The piping for the main supply and and return headers was installed about fifty feet over BGSU's indoor Olympic sized swimming pool. At each of the indoor air handling units, cooling coils were installed and piped with control integration. All installations required large amounts of customized sheet metal work because coils were never meant to be installed from the original installation of the units in the 1960's.

Challenges:

The primary challenge of the project was the installation of the piping throughout the existing building. The Recreation Center is open for use from early morning to late night seven days a week. IPS was adding cooling to a building that was not designed to accommodate cooling but the cooperation between IPS and the building users allowed for a successful project.



Project Facts

Project Duration

10 Months

Total Project Cost

\$1.4 Million

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