

**Owens Operates Heating and Cooling Plants at
The First Indoor Shopping Mall in The United States**



Building History	Southdale Center was the first indoor shopping center in the United States when it opened in 1956. It has had two major expansions, the latest a major renovation completed in 1991.
Retail Area Description	1,261,000 Square Feet; 181 Stores
Mechanical Systems	<ul style="list-style-type: none">- Approximately 2,000 tons cooling by chillers and well water system- Boilers supply 14,000 MBH heating- Most tenant spaces have cooling only units that reject heat to a core loop connected to well water system
Owens Responsibility	Manage the mechanical systems, service & maintenance systems and procedures, and human resources issues. Coordinate subcontractor activities. Help establish and manage capital & operating budgets. Provide improvement evaluations.
Engineering Studies	Cooling System Replacement Study: Detailed study of system replacement options, including lifecycle cost analyses and refrigerant conversion possibilities.

OWENS COMPANIES, INC.

(952) 854-3800

930 East 80th Street, Bloomington MN 55420

www.owensco.com

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