



Project: **Wastewater Treatment Plant Expansion**  
Location: **Springdale, Ark.**  
Client: **Springdale Water Utilities**

## Expanded capacity: 24 million gallons per day

The \$34 million expansion of wastewater treatment facilities in Springdale, Ark., was complete in December 2005, boosting capacity from 12 million gallons per day (MGD) to 24 MGD. The city faces continuation of the unprecedented growth seen over the past decade, combined with heightened concerns about point and nonpoint source pollution of the area's streams and rivers. The new facilities will achieve higher levels of treatment, including reduced phosphorus levels. New sludge treatment processes reduce disposal costs and allow for a more economical regional processing plan by Springdale and other area communities.

*For more information, contact Jim Foil, (816) 822-3180.*



Project: **Jet Engine Test Facility**  
Location: **Dubai, United Arab Emirates**  
Client: **Emirates Airlines**

## Creating outdoor conditions inside

The jet engine test facility for Emirates Airlines is under construction in Dubai, United Arab Emirates. Scheduled for operation by early 2007, it will test aircraft engines with up to 150,000 pounds of thrust, including the engine that will power the next generation of widebody aircraft. The facility will be the largest of its type in the Middle East region. Because jet engines by nature typically operate only in outdoor environments, test facilities are equipped with state-of-the-art technology to allow maintenance, overhaul and testing of engines in an environment that simulates real-world conditions without adverse ramifications.

*For more information, contact Mike Roark, (816) 822-3190.*

## Expansion cost: **\$6.5 million**

Foundation pouring has begun on Danisco's \$6.5 million expansion of its specialty sweetener plant north of Thomson, Ill. Burns & McDonnell is the engineer-procure-construct contractor for the project, which incorporates Finnish technology for the Denmark-based company. The new facilities, part of the rare sugars manufacturing operation, will include a mechanical vapor recompression evaporator system and a processing building. Construction is scheduled to be complete in May 2006, capping off more than 10 years of BMCd work for Danisco on various specialty sweetener and consumer product projects. Rare sugars, those generally not produced in mass quantities around the world, are less sweet than table sugar and are typically used in flavorings. The largest markets for the product initially are expected to be pharmaceuticals or other intermediary products – those that go on to become part of another finished product.

*For more information, contact Warren Kennedy, (816) 822-3384.*

## Focus on safety, passenger service

The Virgin Islands Port Authority is launching several projects to boost safety at Cyril E. King Airport on St. Thomas, U.S. Virgin Islands. Burns & McDonnell will help improve pavement condition and passenger services. Design for two projects is complete. Taxilane asphalt pavement will be replaced with Portland concrete cement slabs, while other pavement will be milled and resurfaced. New edge drains, shoulder edge lights and pavement markings also will be installed. Construction is scheduled to begin in January 2006. Additionally, 1,400 linear feet of shoreline revetment will be repaired by removing the existing stone layer and placing bedding stone, an intermediate stone layer and 10-ton "dolos" – armored work – as a finished layer. Work will begin once funding becomes available. Additional work at the airport includes the arrival and baggage claim area; the airport access road and parking lot lighting upgrade; and airport security improvements.

*For more information, contact James Kanter, (305) 476-5820.*



Project: **Specialty Sweetener Plant Expansion**

Location: **Thomson, Ill.**

Client: **Danisco**



Project: **Cyril E. King Airport Upgrades**

Location: **St. Thomas, U.S. Virgin Islands**

Client: **Virgin Islands Port Authority**