



Project: **Airport Security Upgrades**
Location: **St. Louis**
Client: **Lambert-St. Louis International Airport**

Airport Automates Bomb Detection Process

Searching for possible explosives at Lambert-St. Louis International Airport will soon get easier. The airport is currently wrapping up construction of a new \$5 million automated baggage handling system that will screen checked luggage for explosives directly from the conveyor belt. The two CTX 9000 advanced bomb screening devices the airport is adding work similarly to MRI equipment, explains Burns & McDonnell project manager Gerry Williams. If the machine detects anything unusual, it will automatically send a photo to a screener for review. If the screener remains suspicious, the suitcase will then be inspected manually. The new devices, which can each screen 450 suitcases an hour, replace a system that requires workers to manually load all luggage from the conveyor belt into a machine for screening. Burns & McDonnell is serving as prime contractor for the system, which was completed in the spring. It is one of approximately 30 projects the firm has under way at Lambert.

For more information, contact Gerry Williams at (314) 821-9016.



Project: **Natural Gas Plant Renovation**
Location: **Bushton, Kan.**
Client: **ONEOK**

Natural Gas Plant Makes a Comeback

By next spring, a once-shuttered gas processing plant in south central Kansas will come back online, following a \$100 million renovation led by Burns & McDonnell. Operated at one time by Enron, the plant in Bushton, Kan., is today owned by ONEOK Inc., a Tulsa-based energy company and the largest natural gas distributor in Kansas and Oklahoma. Under a design-build contract, Burns & McDonnell is preparing the plant to receive natural gas liquids piped in from Wyoming, so ONEOK can then fractionate them into ethane, propane, butanes and natural gasoline. Design of the project's first phase, which includes modifications to the existing plant and the addition of new processing equipment, is nearing completion, and construction is now under way, says Wayne Kuska, project manager. As the design-build contractor, Burns & McDonnell is responsible for all engineering, procurement and construction on the project, which will require the work of about 60 designers and as many as 250 construction workers. The project is scheduled for completion in spring 2008.

For more information, contact Wayne Kuska at (816) 822-3385.

Delivering Peace of Mind to Malaysian Lenders

If you're asking banks to finance the construction of a \$1.9 billion project they know little about, it's important to provide some assurance that it's a smart investment. That's why the owners of a 2,100-MW Malaysian power plant now nearing completion first called Burns & McDonnell and Malaysian partner SLP Perunding in 2003. Tanjung Bin Power Sdn. Bhd., the owner, wanted Burns & McDonnell to serve as the lenders' engineering assistant, providing the technical expertise and support it would need to assess risks. Since then, Burns & McDonnell has continued in that advisory role, reviewing contracts, making periodic site visits, witnessing performance tests, certifying project milestone payment requests and reporting findings to the lenders' project agent, CIMB Bankers Berhad. Located at the mouth of the Sungai Pulai River, the southernmost tip of peninsular Malaysia, the plant includes three 760-MW steam-electric coal-fired units, the final one of which will be commissioned this summer. The project also includes approximately 62 miles of transmission lines and the extension of an existing 500/275-kV substation.

For more information, contact Hugo Bazzini at (816) 822-4263.

Bangor Gets a New Hangar

Design has now passed the halfway point on a new aircraft maintenance hangar Burns & McDonnell is designing for the Maine Air National Guard. Located at Bangor International Airport in Maine, the new "Bangor Hangar" will be used to perform maintenance on the KC-135 aircraft for the Air National Guard's 101st Air Refueling Squadron "MAINEiacs." "The planes this hangar will service are used for in-air refueling, enabling the U.S. military to execute global force protection and bolster the air mobility system," says Mark Zimmerman, project manager for Burns & McDonnell. With its 200-foot clear span, the single-story, 35,400-square-foot structure will be large enough to service one plane at a time. It will also include aircraft maintenance shops and facility support areas. It will replace an existing 45-year-old maintenance hangar. A second phase of the project, including additional maintenance shops, training facilities and command offices, will more than double the hangar's size. Burns & McDonnell's services also include architectural, civil, structural, mechanical and electrical design.

For more information, contact Mark Zimmerman at (816) 822-3847.



Project: **Tanjung Bin Power Project**

Location: **Johore, Malaysia**

Client: **Tanjung Bin Power Sdn. Bhd.**



Project: **Aircraft Maintenance Hangar**

Location: **Bangor, Maine**

Client: **Maine Air National Guard**