Huge Flow Variations No Problem for AdvanTex®

Built upon remote desert sands in New Mexico, the world’s first commercial spaceport was dedicated in October, 2011. From the Spaceport, tourists and researchers alike will be able to travel to the edge of space aboard a variety of commercial spacecraft.

The facility, called Spaceport America, boasts a 10,000-ft runway and a 110,000-ft² terminal/hangar. In 2009, Orenco was selected to provide wastewater equipment for the Welcome Center’s utility system, as well as for the vertical launch pad and maintenance building.

In designing the system, engineers from Molzen-Corbin and Associates had to consider the highly-variable expected flows. Under normal operations, the system will see just a few hundred gallons per day. But during occasional Spaceport events, the system needs to handle up to 30,000 gallons per day.

Orenco’s Colorado dealer Roger Shafer, SCG Enterprises,
SPACEPORT AMERICA, NEW MEXICO

worked with the engineers to put together a design that includes flow equalization, primary and recirculation tankage, and eight AX100 AdvanTex pods.

Effluent will be dispersed over a very large area to minimize nitrogen loading. Some of the clear effluent will even be reused to control dust along the desert roads, offsetting the usage of potable water.

A TCOM telemetry control panel has also been installed, allowing the operator to monitor and adjust the system remotely from office or home. The system can be configured to page the operator in the event of an alarm.

Spaceport America is aiming for LEED Gold Certification. Orenco is proud to be a part of another LEED project.

For more information about AdvanTex Treatment Systems or to submit a project inquiry with our engineers, visit ... www.orenco.com/systems