



Introduction

Texas A&M University is a public research university in College Station, Texas. It was founded in 1876. As of 2020, Texas A&M's student body is the largest in the United States. As such a large institution, expansions needed to be made to accommodate the growing amount of attendees.

What was formerly the Bryan Air Force Base in Bryan TX, served as the perfect place for a new campus. The location is now home to the Texas

A&M Rellis Campus, an expansive institution focused on research and education. When the time to implement classes on the new campus, **J.L. Powell & Associates, Inc** were quick to recommend **Patterson-Kelley's** trusted solutions.

Texas A&M Rellis Campus is a 2,000 acre area that needed enough heat to be distributed to throughout with the prospect of future growth supporting 10,000 students at the location.



Challenges

The design needed to accommodate the install of 6 boilers at the TAMU-RELLIS Campus Central Power Plant, while allowing room for 6 more boilers in anticipation of future growth. The decision to add aluminum heat exchangers provided a need for water treatment to keep the PH in operating range of specifications. Regulators also had to be appropriately positioned to ensure proper psi for the expansive system.



Boiler Design

P-K Solution

The solution for the RELLIS Campus was 6 **MACH C3000 Aluminum Boilers**. These units provided a match for the engineering design that was called for while also being able to keep up with the fast design build guidelines.

As all of Patterson-Kelley products do, the **MACH** comes equipped with the **NURO** Controller which has helped in the operation of the 6 units at Texas A&M.

With retro-fit and new construction capabilities, the **PK MACH** suits a wide variety of commercial and industrial building applications.



Efficiency

While the install is fairly new, the six PK MACH units have been meeting the efficiency specifications as promised. With 4 buildings on-line at the campus, by-pass flows have been used to keep the loops warm.

While the comparison to old units cannot be tracked, the future growth potential of the RELLIS Campus opens up more PK Solutions to be implemented due to efficiency and designer specified guidelines that Patterson-Kelley strives to ensure on their products.

For more information please visit pattersonkelley.com.

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