

REAPING THE FRUITS OF INTEGRATION

Ripe for Change, Mexican Juice
Plant Picks Honeywell.

Application Note

The SLATE™ Integrated Combustion Management System enhances control and maximizes boiler efficiency through innovative, integrated technologies.



In operation over 20 years, one of Mexico's leading juice factories enjoys a reputation of excellence in the packaged beverage sector. From juice and nectars to natural water and energy drinks, the success of the production process requires a powerful, modernized control system. Product safety depends on the performance of steam and water boilers. In order to meet these goals, the customer chose the

SLATE Integrated Combustion Management System – a modern, reliable solution designed to optimize plant performance.

SOLUTION

SLATE is comprised of several parts, including a Burner Control and a Fuel Air Ratio Control Module.

The burner control helps the operator safely manage both boiler functionality and sequence. The Fuel Air Ratio Control Module ensures a stable balance between

the two elements – optimizing the process of combustion and saving electricity and fuel.

The SLATE AX Tool is highly configurable and features program application logic that creates proportional-integral-derivate (PID) loops to control

the temperature. The block function has specific boiler logic integrated – producing steam faster and more efficiently.

Control systems are used to monitor and control the temperature of the boilers and to manage the Variable Frequency Drive (VFD) of combustion blowers – enabling powerful and stable production procedures.

BENEFIT

- Optimal boiler performance with automated control through the programmable logic application.
- Enhanced savings of energy and fuel through VFD control of the combustion blower.

THE NEEDS

- Increase performance of steam and water boilers.
 - Install a modern and automated control system to manage a combustion blower and two types of fuel.
 - Implement a safe procedure for burner sequence and operation.
 - Enable cost savings related to energy and fuel.
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- Improved and safety-compliant operation and sequence of the burner.
 - Smart automation control system for the combustion blower and two types of fuel, due to the SLATE AX Tool's application.

Honeywell

For More Information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Controls, Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.Honeywell.com or contact your Honeywell Sales Engineer.

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