

Nexus Delivers High Efficiency & Effective Fuel

Stepan Chemicals, Winder, GA

The Stepan chemicals plant in Winder, Georgia was searching for effective measures to maximize the efficiency and availability of their existing Cleaver Brooks boilers. Stepan contracted Boiler and Heat Exchange Systems to retrofit two Nexus control systems to the existing boilers.

The Nexus systems were sold through Heatco the Fireye Nexus Authorized distributor for Atlanta. Full installation and commissioning of the Nexus systems was proved by BHES through their Atlanta offices. New control panels were supplied by BHES and adapted into the existing boiler control system providing a attractive finished solution.



The two dual fuel fired boilers on site are CB400 units, with an input capacity of 16.3 million Btu hour. They fire natural gas and a special bio - diesel manufactured within the Stepan group of companies.

Each of the Nexus systems fitted provides integrated flame safeguard, high precision fuel - air ratio control via parallel positioning as well as full in-situ, zirconium oxide based, O₂ analysis and trim. In addition gas valve leakage testing, boiler lead lag and full windows based graphical communication software is utilized.



The Nexus system has independent fuel profiles allowing the highest efficiencies to be set for each of the fired fuels. The bio-diesel performs well giving high efficiencies and clean burning throughout the entire firing range.



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