



CASE STUDY

Refinery speeds recovery after natural disaster

Octave Tempo Automation Integrity minimizes lost production after major unplanned outage



Key facts:

Industry:
Oil and Gas, Chemical

Country:
United States

Octave products used:
Tempo Automation
Integrity (PAS Automation
Integrity)

About the company

This U.S.-based, multi-national company is a global leader in the crude oil, natural gas, petroleum products and petrochemical industries. Dedicated to safe and environmentally responsible operations, the company operates over 30,000 wells and more than 30 refineries in 21 countries, constituting a combined daily refining capacity in excess of 6 million barrels.

Challenge

Oil and gas refineries in the Gulf of Mexico region are no strangers to tropical storms and hurricanes. The region had a wake-up call in 2005 when two hurricanes, Katrina and Rita, pummeled the Gulf Coast region in a five-week period. Fortunately, this company reassessed and updated its disaster recovery strategy, which proved invaluable prior to Hurricane Ike making landfall in September 2008. It brought 110 mph winds and a 22-foot storm surge. The third costliest hurricane in U.S. history at the time, Ike had a major impact on the region, causing an estimated \$29 billion in property damage in Texas alone. While the refinery

had a personnel-oriented contingency plan in the form of supplies such as cots, food and generators; it did not anticipate a storm surge that would bring 8 feet of water into the facility and damage process-critical, industrial control systems.

They were forced to locate and fly in replacement control systems from sister sites, which was no small undertaking. They have a wide variety of control systems, including Honeywell EPKS[®], Honeywell TPS[®], Honeywell PHD[®], Triconex TS1131, AB ControlLogix[®] and AspenTech DMCplus[®]. The greatest obstacle was configuring those systems properly and bringing production back online. The company leveraged Tempo Automation Integrity software from Octave, Octave consulting services and outside engineering to help rebuild these systems as fast as possible and restore operations.

