

Completion of the project “Antilles Gaz LNG tank” in La Martinique, France

Summary

Syscom is very glad to announce the completion of the project “Antilles Gaz LNG Tank” in La Martinique with the installation of a certified seismic monitoring system.

The 1000 m³ under slope Butane tank is a critical infrastructure of the island in order to provide Butane fulfillment, conditioned in bottles of 6 Kg, 12.5 Kg, 32 Kg and 39 Kg.

In order to increase the safety of the plant, surrounded by about 80 buildings, an audit was done and mitigation safety measures were recommended. Among them, a seismic monitoring system was required to avoid potentially disastrous consequences in case of an earthquake. Its main function being the closure of a hydraulic and two automated valves for liquids and gas lines, for full tank isolation.

The MRSK2002 system made by Syscom was selected due to its SIL 2 certification (IEC 61508, SIL 3 in triple redundancy), suitable for ATEX zone 1 (minimum labelling: II 2G IIB T4) and was commissioned during the month of October 2018.

The alarm relay output of the MRSK2002 system is used for valves activation in case of Peak Ground Acceleration (PGA) exceedance with very high reliability. In addition to the critical TRIP alarming feature, the earthquake events are recorded for post-processing analysis.

Project summary

- Site name: Antilles Gaz, LNG Tank, La Martinique (France)
- Recorder: 1 MRSK in Ex d enclosure
- System activation: October 4th, 2018
- Syscom partner: Avnir Energy, France



Figure 1. MRSK in Ex d enclosure



Figure 2. LNG pumping station

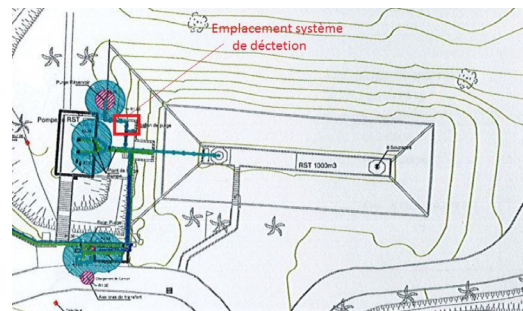


Figure 3. Seismic monitoring implementation drawing

About Syscom

SYSCOM Instruments is part of Terra Insights platform of trusted monitoring technology brands. Terra Insights is the industry’s first, end-to-end sensor to cloud data delivery platform that supports proactive, risk-informed decision making and monitoring. SYSCOM Instruments SA is a leading supplier of vibration and seismic monitoring equipment for the civil engineering and safety markets, in particular for nuclear power plants and LNG plants. The reputation of SYSCOM Instruments SA is based on the reliability of its products, resulting from a meticulous control of all aspects of design and production.

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Figure 4. Site view with LNG Tank under slope