We were able to maintain constant communication with the temperature sensors during the storm and days after, we were able to map the temperature history of our inventory and confirm integrity, quality and safety were never at risk.
**Solution**

Emerson Cargo Solutions’ Wireless Facility monitoring system monitors temperature in stationary areas such as storage and processing facilities, walk-in coolers and freezers and cold-cases. The system is easily installed and uses wireless loggers that communicate with a gateway. The gateway sends data to the cloud database in real-time, using cellular connectivity. The system has redundancy built in, such as backup batteries in the event of a power outage.

Luckily, this system is installed in freezers and refrigerated areas at the Quirch distribution center in Puerto Rico. During Hurricane Irma, it alerted Quirch Foods key executives in Miami, Florida of a temperature change in a section of the facility when the power went out. “Once you lose power, you automatically switch modes looking at temperature because it gives you an indication. When you have no communication during storm hours the temperature will help you determine if the facility has suffered any damage or not,” said Jorge Roza, Director of Marketing at Quirch Foods. Wireless Facility helped monitor temperature for two weeks and generators were used when there was still no power on the island. This helped the company save many perishable items because product continued to be monitored and it was confirmed temperature was not compromised.

Then Hurricane Maria hit the facility harder, causing structural damage to the roof. “Once we went and inspected the facility, we saw there was structural damage to a portion of the roof. So that became a priority. Thanks to Emerson we were able to monitor other areas because a temperature variation was a likely indication of further facility damage,” said Roza.

Emerson’s Wireless Facility monitoring system helped Quirch Foods maintain temperature control on perishable goods even though the power was out for months. “We were able to maintain constant communication with the temperature sensors during the storm and days after, we were able to map the temperature history of our inventory and confirm integrity, quality and safety were never at risk. Thus, we did not have to destroy or reject any merchandize due to temperature abuse nor question the integrity of the inventory. That’s the real value,” said Roza.

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**Result**

- Utilized Wireless Facility Monitoring temperature control on perishable goods during back-to-back hurricanes
- With power out for long periods of time, Wireless Facility helped saved perishable goods