

Proxxi Band Wearables Empower FieldCore Teams to Identify Electrical Hazards

The Challenge

FieldCore, a global leader in industrial field services for the power generation industry, faced significant safety challenges, particularly for its wind power technicians. These technicians regularly work at heights of over 300 feet, installing and maintaining wind turbines, which brings unique risks such as falls and exposure to electrical hazards.

Despite rigorous safety protocols, FieldCore experienced several incidents and near misses related to exposures to electrical currents. The leadership team sought a solution that would not only enhance the safety of their workers but also offer real-time risk identification and timely intervention.

Key challenges included:

- High exposure to electrical hazards during turbine maintenance and upgrades.
- Limited real-time feedback for technicians working in hazardous conditions.
- The need for a scalable solution that could grow with their expanding team and project demands.



The Solution

FieldCore partnered with Benchmark Gensuite to integrate Proxxi's wearable technology into their safety management processes. Proxxi bands, worn by technicians, alert them when they are near dangerous electrical currents.



How It Works

Proxxi wearable sensors warn users of danger in any voltage environment from 110V – 500kV when configured thresholds are breached. During their trial of the technology, field teams confirmed that the wristband provided alerts at the right time: before they got too close to energized equipment that could be dangerous. They confirmed that when outside of safe areas and when working in turbines the wristband provided the additional protection that they wanted. They also felt it was beneficial when working with older equipment, as this was where they were most likely to encounter undocumented work and where they were at the highest risk for encountering unexpectedly energized sources. Additionally, they experienced few false positives, meaning the wristband was not giving spurious alerts that would distract or annoy the worker.

Through Benchmark Gensuite's APIs, FieldCore was able to seamlessly integrate the Proxxi band technology into their existing EHS platform. A safety concern form and notifications are automatically created within FieldCore's Benchmark Gensuite platform so that safety managers can take immediate action when Proxxi bands detect users are in proximity of dangerous voltages. Safety managers can then use Benchmark Gensuite's dashboards and analytics to identify trends in potential hazards prior to them becoming risks to the team and better take proactive action to mitigate any existing hazards.

“ We’ve had tremendous feedback from our technicians, and that’s what really sold us on the tech. It makes them feel like there’s someone there helping them look out for electrical hazards. The implementation is what’s really key and I want to thank Benchmark Gensuite and Proxxi for pushing us to do this. We had implemented the band and then Benchmark came along and said we could implement it into our platform and that was tremendous,” said FieldCore’s Chris McKee, Americas EHS Manager, Renewables and Wind.

The Future

What began as a small pilot program with only five Proxxi bands in the field has grown to 45 bands with plans to expand even further.

“ What we’re seeing is really eye-opening and is going to ultimately, at the end of the day, keep our employees safe.”

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