

Store Packs Umicore

Four US Collection & Storage Sites for EV LIBs



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Conference

Mark Caffarey
President Umicore USA Inc.

Team Introduction

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With four collection & storage sites for EV LIBs aimed toward scrap yards we hope to provide a safe collection, storage, handling and transportation option. Scrap yards are not properly equipped to handle automotive Lithium ion battery packs and are coming to the industry looking for guidance on how to handle these packs.

Team Members:

- Mark Caffarey: President, Umicore USA
- Erika Warner: North American Battery Recycling Coordinator, Umicore USA
- Casey Westhoff: US Government Affairs Manager, Umicore USA

Phoenix Group Metals

- Nathan Laughlin: Operations Manager
- Matthew Steger: Regional General Manager

Spiers New Technologies

- Kylah McNabb: Director of Business Innovation
- Bryan Schultz, Director of Engineering



Project Overview

- Umicore is working with Phoenix Group Metals (PGM) and Spiers New Technologies (SNT) to establish automotive Lithium ion battery pack drop off sites that serve the U.S. scrap yard community.
- With three locations; Phoenix, Houston, and Atlanta are being established with PGM for handling and storage of large li-ion battery packs. With assistance of Umicore, PGM is working to become compliant with EPA, NFPA, DOT, and IMDG codes in order to properly handle, store, package, and transport lithium-ion battery packs.
- Spiers New Technologies will be the fourth location collection point located in Oklahoma City, OK.
- Packs will make their way to SNT for an evaluation of second life capabilities. Any packs that's are determined not to have a second life capability will be shipped for recycling for mineral value through Umicore.

Project Update

- Currently the Phoenix Group Metals sites, (Phoenix, AZ; Houston, TX and Atlanta, GA), are in the process of obtaining EPA identification numbers for all their locations.
- The next step, we are making sure that all locations are following NFPA protocols and reaching out to all local fire marshals to make sure that the sites are up to date. SNT will play a crucial role in training PGM personnel in the proper handling and storage of large Li ion battery packs.
- Additionally we are thinking about the transportation of packs from scrap yards to storage locations. Looking for solutions cross country shipping solutions that are trained, knowledgeable, and certified to ship hazardous materials.
- Based on the success of Phase I, we are looking to partner with companies similar to Phoenix Group Metals located in different US States.