Surrey, British Columbia (FSCwire) - Larry W. Reaugh, President and Chief Executive Officer of American Manganese Inc. (“American Manganese” or “AMI” or the “Company”), (TSX.V: AMY; Pink Sheets: AMYZF; Frankfurt: 2AM), is pleased to announce that Phase 3 testing conducted by Kemetco Research Inc. (“Kemetco”) confirms that rechargeable lithium-ion battery coin cells can be successfully produced from lithium-cobalt cathode material regenerated using AMI’s proprietary process.

The resulting lithium-ion button cell battery produced from AMI’s proprietary process was charged to a maximum of 4.2 volts and then discharged to a minimum of 2 volts. This charge-and-discharge test was repeated 10 times without the battery losing its chargeability.

Norm Chow, President of Kemetco says, “Based on these preliminary results, it can be concluded that the American Manganese upcycling technology can transform spent lithium-ion battery cathode material into high-purity intermediate products (e.g., lithium carbonate and cobalt carbonate) as well as into lithium-ion cathode material suitable for the fabrication of new batteries.”

“These results validate the AMI process,” said Mr. Reaugh. “With this final phase test work, we’ve taken lithium-ion battery cathode material from the recovered component metals through reconstitution of the cathode materials to produce working chargeable cells.”

Battery Fabrication and Assembly

During Phase 3 testing the lithium cobalt dioxide (Li_2CoO_2), which was generated from experiment SCL6S and identified with 100% purity by X-Ray Diffraction (XRD) (please see the Oct 14, 2016 press release for further details), was used in the lithium ion cathode material formulation for button cell fabrication.

The cathode material was then prepared by combining a solid mixture of 90% (by weight) Li_2CoO_2, 6% Carbon Black, and 4% PVDF (polyvinylidene fluoride) with NMP (N-methyl-2-pyrrolidone). This cathode material mixture was subsequently coated onto aluminum foil and dried for 2 hours at 120 °C in a vacuum oven to form the lithium-ion battery cathode.

The button cell batteries were assembled as follows: top cell case, cathode, separator, anode, spacer, ring-shaped spring, and bottom cell case. The anode was made from purchased graphite. The ring-shaped spring was placed between the negative casing and the spacer to ensure adequate pressure was applied to the cell components. Both the spring and the spacer are made from stainless steel. A thin layer of polyolefin was used as the separator. The Company will report on the next R&D program in a future release.

About Kemetco Research Inc.

Kemetco Research Inc. is a privately-owned contract research and development company specializing in extractive metallurgy, chemical processing and specialty chemical analysis. It was formed after the acquisition of the industrial process division of B.C. Research, which had been in operation for over 60 years as a research and development contractor in British Columbia.

About American Manganese Inc.

American Manganese Inc. is a diversified specialty and critical metal company focused on capitalizing on its patented intellectual property through low cost production or recovery of electrolytic manganese products throughout the world, and recycling of spent electric vehicle lithium ion rechargeable batteries.

Interest in the Company’s patented process has adjusted the focus of American Manganese Inc. toward the examination of applying its patented technology for other purposes and materials. American Manganese Inc. aims to capitalize on its patented technology and proprietary know-how to become and industry leader in the recycling of spent electric vehicle lithium ion batteries having cathode chemistries such as: Lithium-Cobalt, Lithium-Cobalt-Nickel-Manganese, and Lithium-Manganese (Please see the Company’s March 31, 2016 press release for further details).

On behalf of Management

AMERICAN MANGANESE INC.

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