



## **EXECUTIVE SUMMARY AND SUMMATION OF RESULTS**

As directed by the Department of Energy, PowerBatt USA presented its PowerBatt product to EAI under the premise that it is a liquid additive which will reduce or eliminate the presence of performance inhibiting hard crystalized sulfate, a by-product of all lead acid batteries. As a result, the capacity of batteries will be restored to an appreciably greater percentage of full capacity.

Based upon this premise, EAI performed controlled tests on six- and seven-year-old GNB, Hawker, and Douglas batteries still in operation and furnished by Toyota Material Handling of Phoenix, AZ. Based upon the results of that testing, EAI affirmed PowerBatt desulfated the batteries and improved the batteries' discharge times up to 48%. This resulted in a statistically appreciable increase in the overall capacity of the batteries. The data also reflects increased and equalized voltage and density.

Based on EAI test results, we conclude the use of PowerBatt effectively restored the capacity of the operational batteries and enabled continued use. These certified results allow us to state conclusively the restoration and enhanced performance would appreciably postpone the need for new battery replacement due to sulfation. This in turn will lead to a reduction in the carbon footprint associated with manufacturing and recycling of the lead acid batteries.

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