## Secondary Lead Production (Hydrometallurgical Treatment) CX-EW<sup>®</sup> Process and CX-EWS<sup>®</sup> Process

 Title:
 CX-EW Process: a Comprehensive Recovery System for Lead-Acid Batteries

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Abstract: Traditional pyrometallurgical technologies for the recovery of lead and other materials from SLI batteries have required the use of massive and expensive air pollution control systems and wastewater treatments plants in order to attempt to meet the environmental regulations.

these systems in turn to generate solid waste containing lead and other heavy metals which must be disposed of in an environmentally sound manner. The option for this disposal are becoming more costly and less viable in today's regulatory climate. Obviously, it is far better to prevent the generation of these wastes to the extent possible than to be faced with the disposal dilemma.

Basic assumption in the development and designing of Engitec's CX-EW Process are waste minimization and pollution prevention. Even though initial capital investment may be higher than traditional technologies, the life cycle cost of CX-EW are significantly lower based on pollution control cost saved.

Waste minimization, pollution prevention and environmentally safe recycling today are public policy of governments throughout the world. Through the Engitec CX-EW process battery manufacturer and recyclers have a mean to more fully comply with these ideals in an economically profitable manner.