

ACOUSTICLEAN® SONIC HORN USED TO PROMOTE FLOW FOR GRANULATED SUGAR DISTRIBUTOR

THE PROBLEM

A major distributor of granulated sugar, with multiple locations across the US, had issues unloading granulated sugar from railcars for many years. The sugar would not consistently flow from the hopper cars, resulting in extensive operator interaction such as rodding, as well as entering the railcar. Vibratory devices were tried without success. Based on their unique application needs, the solution developed to promote material flow was the addition of an AcoustiClean® Model ACL 17220 sonic horn to the railcar's top access hatch.

THE SOLUTION

When a railcar is received at the discharge terminal, an operator opens the discharge gate below the car, along with the top access hatch to begin the loadout process. The operator places the ACL 17220 at the top access hatch, allowing the sound energy to be focused on the sugar below, thereby facilitating movement of material towards the discharge gate. Using a sound frequency of 220 Hz, pulsed for 8 seconds at 5 minute intervals, the ACL 17220 proved to be effective in promoting material flow alleviating the concern of slow load times and worker safety due to entering the car.

THE RESULT

This solution was well received by the sugar distributor due to the cost savings associated with faster load-out times and increased safety of their site personnel. Since December of 2017, they have purchased two additional ACL 17220 sonic horns, with the intent to purchase more for other facilities.



Model ACL 17220

MORE INFORMATION

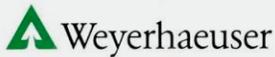
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Control Concepts, Inc provides a 5 year warranty on AcoustiClean Model ACL with proper maintenance.

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