

## SplitStream Keeps Cereal Flowing

A producer of breakfast cereals approached Aerodyne about augmenting dust collection in one of their production facilities. The producer's dust collection system pulled dust from sugar coating, conveyors, and ovens for cooking the cereal. Although the company used a wet scrubber to remove dust, recovery of dust was difficult due to the nature of wet scrubbers. The company also faced increasing costs stemming from the greater water and power usage needed for the large amounts of dust as well as from the disposal of wastewater. Baghouses were not an option due to the temperature of dust stemming from the oven. The producer sought Aerodyne's S15000 SplitStream collector to ease the strain on the system.

The SplitStream Dust Collector was able to help relieve pressure on multiple systems. The cyclone is a great choice for easy removal and reuse of dust since the dust is never trapped in a solid or liquid medium, which baghouses and wet scrubbers requires. The SplitStream is also able to use a recycle airflow design for its secondary inflow, increasing the efficiency of the cyclone while



also allowing collection of dust from multiple sources without extensive modifications to ventilation systems. By forcing the secondary stream into the collector, the dust from the secondary stream is merged with the primary stream while avoiding abrasion or sticky buildup that might result from sugars in the airflow.

The producer installed the SplitStream in front of the wet scrubber, lowering the amount of liquid waste and reducing the strain upon the system. The producer currently has 5 SplitStream collectors operating across the country at the various facilities.