



## Smaller Torit® PowerCore® Bin Vent Proves Smarter for Grain Silos

**INDUSTRY:** Grain silos in barge unload area

**PROBLEM:** The perforated poly tube bin vents were inefficient, leaky, and worn out

**SOLUTION:** Torit PowerCore dust collector with PowerCore filter packs from Donaldson Torit



Torit PowerCore bin vents operate effectively on the grain holding silos at this barge unloading area.



PowerCore filter pack can be lifted out & changed without tools at service time.

When the businesses near this Gulf Coast grain facility complained about excessive dust floating over, it became apparent that the old perforated poly tube filters on top of the storage silos had worn out. The complaints, as well as the problems of lost product and excessive maintenance due to this equipment failure, demanded a better solution for silo venting filtration.

The terminal manager feared he could not afford the high performance that the site needed — until he discovered Torit® PowerCore®, a new technology from Donaldson® Torit®. It's a smaller, smarter approach to air filtration that uses the full power of Donaldson's Ultra-Web® advanced nanofiber filter media in a bin vent dust collector.

### Cleaner

The Ultra-Web technology in PowerCore filter packs cuts emissions by as much as 78% over traditional filter media, thereby keeping the neighborhood cleaner and reducing product loss.

### More Reliable

The Torit PowerCore system recovers well from upset conditions, such as unusually high amounts of particulate that happen periodically. At this facility, when the self-cleaning mechanism was turned off for a few days, the pressure drop ran up to 6 "wg\* in the collector. With just one pulse cycle (3 blasts of air), pressure drop quickly recovered to just 1 "wg. Since the filter packs clean effectively every time, there is no longer a need to open the collector and clean it out by hand, as the crew had to do with the old perforated poly tubes.

### Smaller, Easier

The maintenance crew also enjoys easier filter changeouts. Each PowerCore filter pack is only 22" x 7" and can be easily lifted out by one person without tools. The filter access door on top of the collector is positioned at a convenient height so ladders are not needed on top of the silo.

### Smarter

Reliable performance, no dust leakage, no more complaints from the neighbors, no lost product, and low maintenance make the Torit PowerCore collector the smarter choice. ○

\* "wg = pressure drop expressed in inches water gauge