

CLAYTON COUNTY RECYCLING UPGRADES ITS
EDDY CURRENT SEPARATORS WITH GREAT SUCCESS.

AN OPPORTUNITY IN DISGUISE

In 2015 Clayton County Recycling (CCR), Monona, Iowa, suffered from a fire at its nonferrous plant. “The fire destroyed several conveyors and two eddy current units” says Fred Runde, owner of CCR. “It ended up being an opportunity in disguise.”

For some time, Runde had been unhappy with the recovery he was getting from the nonferrous plant. The plant is responsible for processing the auto shredder residue (ASR) from the firm’s 80x104 shredder from American Pulverizer. “We process some 22 tons per hour through this plant. The 3” plus and even the 1” to 3” separation worked well. The 1” minus, however, was really not recovering all the aluminum, and in our efforts to get as much as possible, we set the splitter very close, giving us an end product only 81% to 83% metal” he says. As both units needed to be replaced, CCR used it as an opportunity to upgrade to the latest ECS technology.

As he evaluated the landscape of possible suppliers Runde turned to a firm that he had grown to respect and trust, SICON America. “We’d installed sensor sorters from them several years ago. They have performed wonderfully and Heiner Guschall, president of SICON, is in my mind the foremost authority on metals separation in our industry,” Runde comments.

CCR elected to install two INPX Series eddy current separators from SICON. These units were set up to process the 1” to 3” material and the 1” minus material. They are also the first such units SICON has installed in North America. “We’re thrilled with the performance,” Runde says.

CCR now is able to produce a product it had not been able to previously. “In the 1” to 3” unit we opted to add a long-throw splitter. This allows us to produce a Long Throw twitch that we sell directly to the secondaries,” Runde says of CCR’s new sales to



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secondary aluminum smelters. “They love it; there is no stainless in the material, which is critical for them.”

Overall the line has seen a considerable increase in metals yield and quality improvement. The 1” minus line features a stacked unit for magnetic dirt recovery prior to it hitting the ECS. This protects the gauss levels at the head pulley while reducing the overall material volumes, enhancing separation.

“Previously we were lucky to run 82 to 83 percent metal in our recovered stream. Today the 1” minus line produces a 92% to 93% total metallic product, with 11% of that being red metal.”

Since commissioning the new units in January 2016 they have required little if any maintenance. “That’s been my experience with SICON equipment, with good housekeeping practices done each shift, they have been trouble free. When we have needed anything, such as a replacement belt, SICON has been very responsive,” Runde says. “SICON realizes all shredding operations are not the same, and does their homework to provide the best equipment for your particular needs. In our experience they have proven themselves to be a first class company,” declares Runde. ▲▼



SICON'S OFFERINGS:

- ▶ EcoShred Series Shredders
- ▶ EcoShred Vertec Vertical Shredders
- ▶ VARISORT Sensor Sorters
- ▶ AirSort Z-box Air Classifier
- ▶ PolyFloat Separators
- ▶ Eddy Current Separators

SICON'S SYSTEMS SOLUTIONS:

- ▶ Scrap Processing
- ▶ ASR Processing
- ▶ E-Scrap Processing
- ▶ Plastics Processing