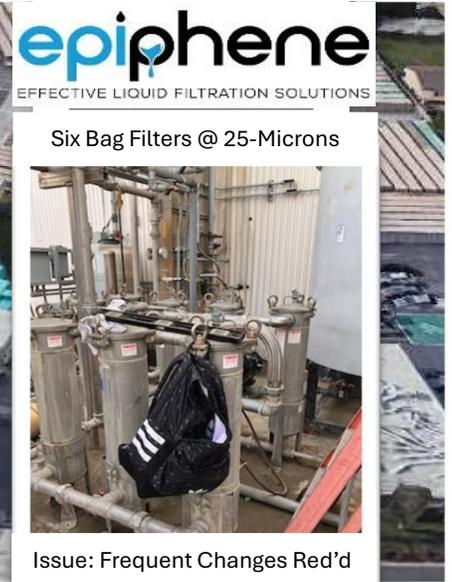


Full Stream Solids Separation System for Roofing Shingle Plant

Cooling Tower, Bag Filters, & Cooling Nozzles



Issue Facing Customer: Shingle manufacturer's bag filters required bag changes sometimes every shift or more often. Cooling nozzles were plugging affecting quality of product. Both issues were impacting the production equipment reliability and increasing servicing and maintenance significantly. Servicing required shutting down the production line for up to 30 minutes. All the cooling nozzles had to be cleaned frequently, and abrasion required frequent replacement requiring weekend maintenance. Cost for both the filter bags, nozzles, and labor for all was significant. Other maintenance was often deferred or delayed as a result.

Solution:

They found Epiphene's Award Winning CPH-16 Silt Separators, and they a pre-filtration unit capable of 250 GPM in front of existing 1st stage bag filters.



Results: The CPH-16 Silt Separator Filtration Unit achieved the goal of removing solids protecting their bag filters and cooling nozzles. Initial Bag Filter set changeouts decreased to once weekly. Secondary set of finer bags went from twice weekly to once a month changeouts. Nozzles replacement ended and plugging decreased to once a week inspection. System reliability increased, shingle quality improved due to improve cooling nozzle spray distribution and they are looking at other applications and filter upgrades to improve overall plant efficiency.