



PROBLEM SOLVED™ PAPER

SOLUTION: System Analysis by Martin Engineering and Martin®
Transfer Point Products
INDUSTRY: Food Processing

LOCATION: U.S. Sugar Corporation, Clewiston, Florida



US Sugar Corporation refinery in Clewiston, Florida.



This transfer point at the sugar refinery features new belt support cradles and a new edge sealing system.

PROBLEM

The 10 conveyors in the raw sugar conveying system suffered severe spillage and carryback as well as belt wander that originated in the accumulation of fugitive material on rolling components. Plant management made a commitment to solve these problems.

SOLUTION

System Analysis by Martin Engineering Martin® Transfer Point Products

Martin Engineering provided a detailed engineering study that listed a number of recommendations. They included: moving the head pulley of one conveyor and the tail pulley of a second conveyor, lowering the overall height of a third conveyor, changing three conveyors to a picking-idler style to improve cargo capacity, installation of training devices to improve belt tracking and upgrading the belt cleaners on all conveyors to improve cleaning performance.

RESULTS

Results of the project showed great improvement. Plant officials report that the whole system runs much cleaner, and weekly cleanup was reduced from tons of material to pounds of material. While no formal payback study was done, plant officials consider the site survey and the project “money well spent.”