Doug Brownfield Abstract RETEC

Title: Closed-loop in-line color correction automation when using PCR & PIR resins

1- **Understand new automation to decrease downtime and scrap when running PCR**
2- **How to reduce color usage and cost through better control without operator involvement**
3- **Improve color quality to meet customers quality expectations when using PCR and PIR resins**

Summary: PCR compounders face a considerable challenge trying to control specified colors using inconsistent color resins within lot to lot and within the same lot. Pressure is put on line-operators and QC managers to control the color during production. With skilled labor challenges this only compounds this quality issue.

New automation in color QC now allows for real-time color adjustments on-line. No operator adjustments required. Total Closed Loop System. Measures pelletized materials at the classifier and links to an automated color feeding system for continuous adjustments based on L.a.b. color specifications.