



Static Elimination

Eliminating Injury & Waste from Static Electricity

APC hired **Kelly Robinson, PE, PhD of Electrostatic Answers**, a static elimination expert, to conduct static assessments at all our facilities. Dr. Robinson, is a Professional Engineer licensed in New York State, an IEEE Fellow cited for: "contributions to electrostatic performance of processes and imaging devices." Our ultimate goal is to provide our customers with a product that is of a controlled minimal static which correlates to a far superior label, a label that will run on packaging machines free of static related concerns.

The Project:

- ≈ Completed evaluations of all manufacturing equipment – Presses, Extruders, Slitters
 - ⚡ Including Powered Industrial Trucks, Ink Storage and Flammable Storage areas
- ≈ Received reports with measurements of static levels and recommendations to improve static control to eliminate static discharge and to mitigate static accumulation
 - ⚡ Measured static charge levels from the beginning to the end of all processes, determined the sources of static charging, and identified the best ionizer locations to dissipate static electricity
- ≈ Provided recommendation on types of static elimination equipment to use (both passive and active)
- ≈ Assisted in the evaluation and writing of SOPs for
 - ⚡ Raw material (film) static testing on incoming materials
 - ⚡ How to conduct routine equipment testing to ensure static elimination equipment and reduction results are sustained

The Benefits:

- ≈ Safety
 - ⚡ Reduce static discharge and remove the potential for static fires
 - ⚡ Add safeguards by identifying high static material which causes employee handling safety issues
- ≈ Quality
 - ⚡ Identify high level static on incoming raw materials
 - ⚡ Improves print quality by removing static from web at print decks
 - ⚡ Mitigate static accumulation in products going to customers
 - ⚡ Improves material use and handling at customer's facilities
 - ⚡ Reduction in static yields a reduction in product contamination
 - Attract less dust/debris/hair/bugs resulting in a cleaner end product
- ≈ Endorsement
 - ⚡ APC experience with Dr. Robinson is shared with customers and his services are recommended to those needing assistance with machine static reduction