

# Improving EPD scores through plant performance

Moisture  
Reduction

Burner  
Tuning

Drying drum  
flighting

Energy  
Efficiency

# Moisture Reduction

- Develop your site with slope and fall to help reduce moisture
- Daily moisture reporting is vital to ensure consistent blending and placement through the entire process. Variability in environmental conditions could potentially affect quality and longevity of the finished product.
- Explore the options of automated real time moisture sampling systems for more consistent moisture measuring.

# Burner Tuning

- Tuning is vital and must be performed several times per year to ensure air to fuel ratios are in line if this is done we emit carbon into the atmosphere.
- Gas monitors are used to measure the air and fuel ratio at the burner as well as the exhaust stack for proper emissions testing.
- Untuned burners will run energy costs up which leads to inefficient combustion that will lead to damage to key components on the burner and baghouse.

# Drying Drum Flighting

- Drum Flighting is essential to efficient drying
- Combustion flights are closest to the burner. The purpose of these flights is to allow aggregate to flow behind them as to keep them from falling in the flame. This allows for more efficient.
- Vailing flights such as the astec v flights in the photo here pickup aggregate as it flows down the drum as the material carries over it begins to shower from the flight creating a vail that helps protect the baghouse from overheating when flighted properly, and can cause extreme overheating and stackouts when flight pattern is not sufficient.
- Mixing flights are typically positioned after the vailing flights and just that continue mix the aggregates as they at the dam before combustion flights.



# Energy Efficiency

- The overall goal of production.