United States Department of Agriculture

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Maryland Engineering

316 – Animal Mortality, Thermal Dehydration

Natural Resources Conservation Service

nrcs.usda.gov

Thermal Dehydration

- 316 – Animal Mortality
  - On-farm facility for the treatment or disposal of livestock and poultry carcasses for routine and catastrophic mortality events
  - Historically encompasses incineration, composting, rendering
  - New technology – thermal dehydration

TDS1300 Installation TX, USA

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Thermal Dehydration for the Disposition of Poultry Mortalities – Livestock and Poultry Environmental Learning Community

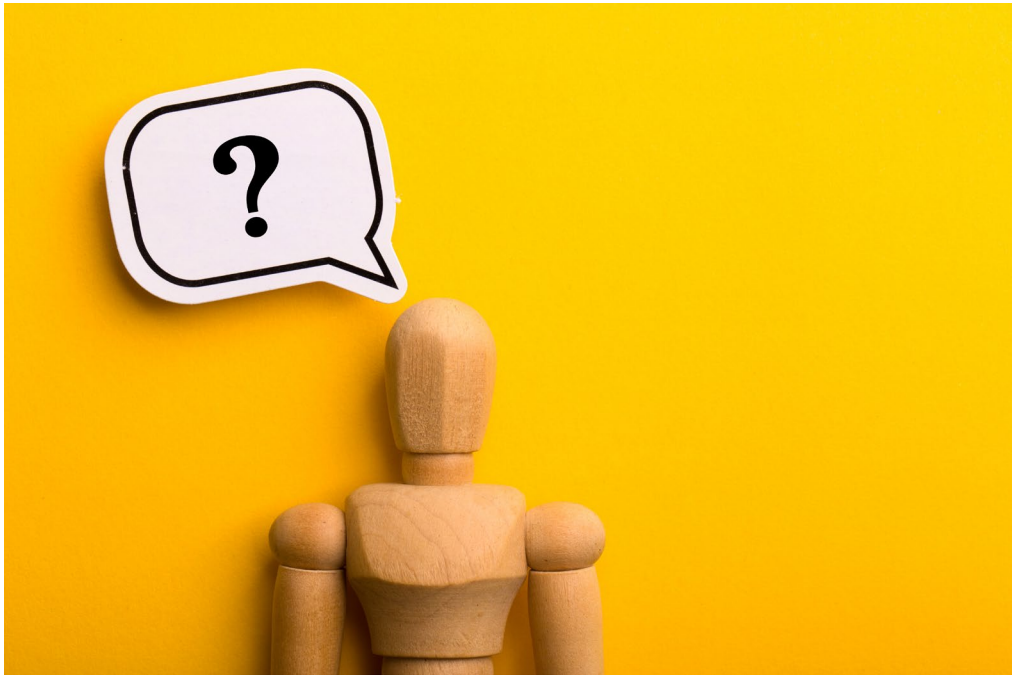
Thermal Dehydration

- Dehydration for Mortality
  - Promoted as efficient, effective, clean (electric)
  - Mixing, heating to 194 deg F, drying
  - 60% volume reduction, 12-hr cycle
  - Result product is dry “flour” that can be land application
  - Accepted by NRCS National
  - Included in FY2024 payment scenarios in TX
  - Units ~ $70k-80k (Cost share $50-$60k)

Currently

- Seeking permission in State of Maryland
  - Meeting with MDA on Friday, November 22
  - Awaiting permission to officially adopt
  - Develop plans and standard criteria (concrete pad, sizing worksheet, hookup requirements)

Reference

- https://lpelc.org/thermal-dehydration-for-the-disposition-of-poultry-mortalities/
  - *Not promoting company but providing technology overview*

Questions?