

**STANDARD OPERATING PROCEDURE
FOLEY PILOT PLANT**

TITLE: Biomass Preparation

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HHSM

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A. Scope

This procedure describes the methods to prepare the biomass for pretreatment.

B. Safety and Training Requirements

No protective equipment is necessary.

C. Related Documents and SOPs

1. Dynamic MF2000 mixer manual
2. KERN moisture balance manual
3. OHAUS 5000 Series Xtreme W manual
4. Dry weight by moisture balance SOP

D. Preparation/Materials/Equipment

1. Dynamic MF2000 mixer
2. Two Rubbermaid Roughneck 25 gal storage bin
3. OHAUS 5000 Series Xtreme W balance
4. KERN moisture balance

E. Detailed Procedure

1. Take the bagasse to be used out of the cold room and allow for it to warm up to room temperature (1 – 2 h should be enough). Take note of the bagasse batch number in the Biomass Preparation Log.
2. Spread the bagasse in two additional Rubbermaid Roughneck bins and mix well using the Dynamic MF2000 mixer. Make sure there are no clumps of bagasse left.
3. Measure three times the dry weight of the bagasse using the KERN moisture balance. If the dry weights are off by more than 3% units between them, measure the dry weights an additional three times.
4. Take note of the dry weights in the Biomass Preparation Log.

F. Data Archival and Analysis

Record the data in the Biomass Preparation Log and store in the Batch Log Book.

G. Tickets

Biomass Preparation Log

Date _____

Biomass Batch Number _____

% Dry Weight

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

Average