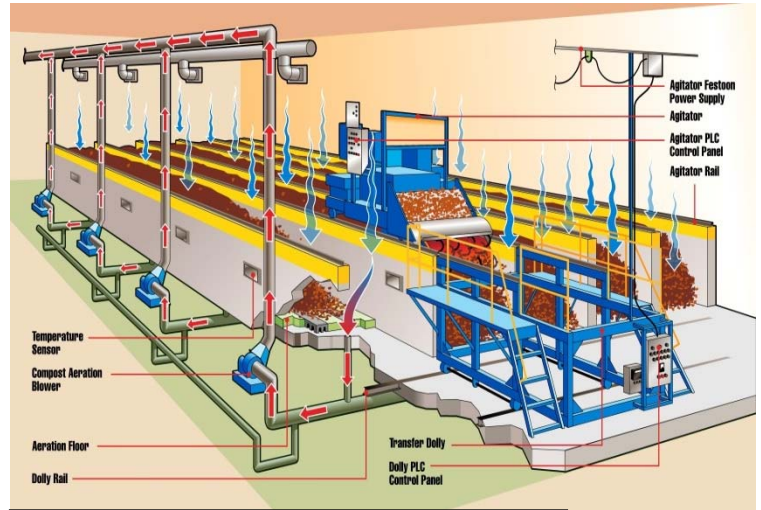


## Xinxiang Biosolids & Agricultural Byproducts

### Xinxiang, China

Commencing operations in 2014, the Xinxiang compost facility continues the novel combination of BDP's agitated bay technology with BacTee's negative aeration system for the composting bays. Negative aeration provides for the highest level of odor containment and control while reducing fog potential inside the building. The Xinxiang facility also includes our new **"Targeted Ventilation System"** that is designed to temporarily increase air movement over a bay when an agitator is processing that bay to capture the short term, relatively high release, of fog and odors as shown in the picture below. Using an extensive network of conveyors, including for bay loading and unloading, the facility is completely automated from material receipt thru compost discharge. It was designed and built by BacTee's parent company MTI China. It incorporates twenty eight 10 feet wide x 280 feet long bays using two 100 HP BDP agitators to co-compost @ 300 WTPD of municipal biosolids with 70 WTPD of rice hulls and other agricultural by products. Average ambient temperatures at the facility range from 10F to 90F. An enclosed compact MTI biofilter is used for odor control. The material undergoes 21 days of active composting in the bays. Approximately 75% of the discharged material is recycled to the front of the compost bays for use as bulking agent. The remaining 25% material is land applied as fertilizer replacement.



Schematic of Facility Airflow with Negative Aeration



Automated Bay Loading and Unloading Systems

|                                   |  |
|-----------------------------------|--|
| <b>Primary Compost Material</b>   | @ 110,000 WTPY Biosolids                                     |
| <b>Key Characteristics</b>        | Undigested 20% DS from a screw press.                        |
| <b>Secondary Compost Material</b> | @ 25,000 WTPY of various agricultural byproducts             |
| <b>Key Characteristics</b>        | Dry organic material like rice hulls, corn straw, etc... <2" |
| <b>Facility Start Up</b>          | October 2014   |
| <b>Total Facility Size</b>        | @5 acres   |
| <b>Facility Engineer</b>          | MTI China  |
| <b>Plant Contact</b>              | Don Wang – MTI USA   |
| <b>BDP Contact</b>                | Rich Nicoletti – Compost Systems Manager                     |



Agitator Working in Bay Under "Targeted" Ventilation Duct