

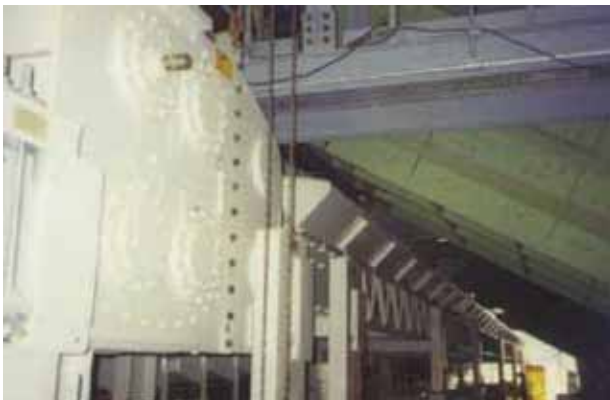
Dewatering Problem Solved at Mass Burn Incinerators

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CASE HISTORY

Mass-burn incinerators burn unprocessed garbage and solid waste to produce heat to make steam for steam turbines that produce electricity. This often times can become a challenging task because of dewatering, lime build up and sometimes shutdowns. Different conveying processes can be used, but horizontal motion conveying has proven to be the most successful at a large energy producer plants.

Belt conveyors cannot be used because of the surge-loading. Hot-quenched ash with lime added to control the ph, will stick to the pan of the natural frequency conveyors, causing them to stall-out under load.



The natural frequency conveyor and the vertical pitching motion partially de-waters the ash causing it to stick to the pan. On the other hand, the gentle horizontal, slow-advance, quick-return motion of the Slipstick conveyor moves the mixture of bottom ash, fly ash, lime, and water en-masse without it sticking to the pan, or being de-watered. Slipstick's single-drive mechanism provides a unique horizontal differential motion which glides the product down the pan.

This energy producer installed its first horizontal motion conveyor, the Slipstick, 23 years ago in California. The Slipstick conveyor was installed in many of this company's plants and others in the mass-burn incinerator industry because it performs flawlessly in at least a hundred plants around the world. Some of these conveyors have been in operation for more than 30 years and perform flawlessly.

The results have been excellent. The plants have increased productivity, decreased downtime, and reduced operating costs.



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