

### Bin Activator keeps salt cake moving without downtime

#### Company

System designed by International Salt Company, Clarks Summit, Pa.

#### Problem

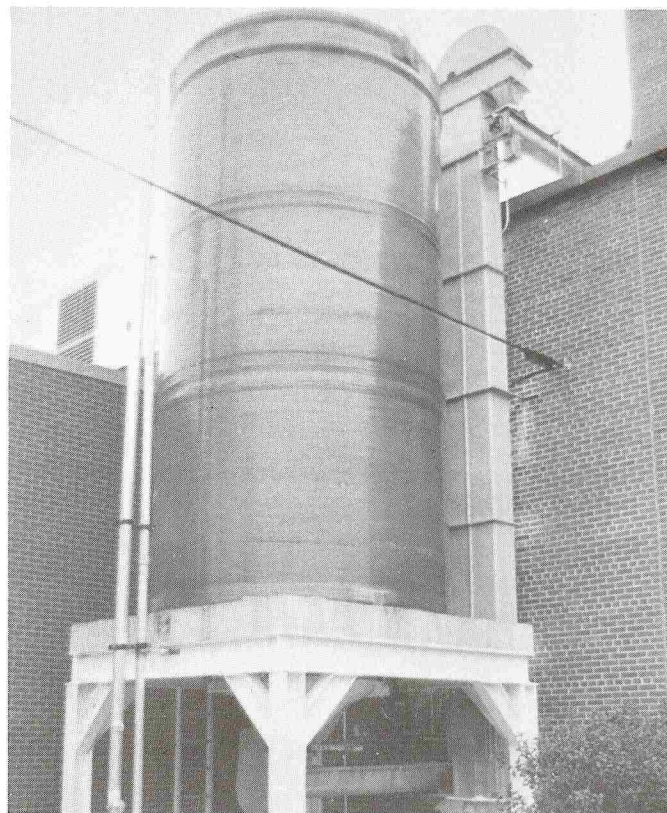
The customer employs sodium sulfate in a brine bath to improve the fastness of textiles. In the past, the "salt cake" has been stored in bags and dumped into the bath manually. The material is a powder of 200 mesh which is subject to caking. For this reason it is ordinarily never stored in bulk for more than 24 hours. Attempts to do so have resulted in downtime in order to dislodge the caked salt manually.

#### Solution

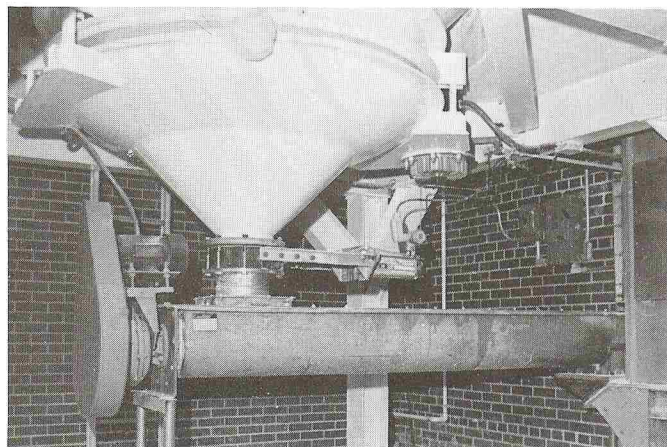
A 5-ft. diameter Vibra Screw Bin Activator, carbon steel construction. On the basis of their experience with Bin Activators, International Salt recommended the use of a fiberglass bin and Bin Activator combination. The bin, whose capacity is 50 tons of salt cake, is supported by a concrete slab, with a Bin Activator attached below it to provide assured flow of material to a 9-in. screw conveyor. The Bin Activator employs controlled vibration which keeps the sodium sulfate from sticking to the bin; eliminating the downtime otherwise required for manual prodding.

#### Results

The installation is working so well that International Salt expects to provide a duplicate system to their customer in the near future.



Fiberglass bin is supported by concrete slab, with 5-ft. diam. Bin Activator attached below.



Bin Activator employs controlled vibration to keep sodium sulfate moving from bin to 9-in. screw conveyor.