

A Case History



JVI VIBRATORY COAL FEEDERS

Texas Genco
(formerly Reliant Energy)

In Thompson, TX



The Problem:

The plant planned to replace a number of existing troublesome feeders. The feeders need to discharge coal from hoppers underneath railcar unloading stations at a precise and consistent rate of 600 TPH. Additional feeders were also required to consistently deliver coal at 400 TPH from coal stockpiles. The feeders deliver the coal to take-away belts in both arrangements. The coal is exposed to the elements so the moisture content and temperature vary; the coal is particularly sticky during the winter months. The existing feeders required extensive maintenance and adjustment to maintain a consistent feed rate, especially when the coal characteristics changed.

The Solution:

JVI proposed a solution consistent with the plant's requirements. Eighteen (18) Electromechanical UPF Feeders were designed to be installed under the stockpile hoppers. They each measured 48" x 72". The application for the six (6) railcar unloading station hoppers was also best suited for electromechanical feeders. These measured 62" x 120". All feeders were pre-engineered to reduce installation time and costs. JVI controls allowed the feeders to deliver the consistent feed rates required. Furthermore, the feeders can be operated with or without a material load. They do not require tuning, regardless of material characteristics.

The Results:

JVI's single mass, electromechanical UPF feeders have provided reliable and consistent throughputs to Texas Genco at the plant. At the same time, the JVI feeders have eliminated the maintenance issues that were experienced with the feeders they replaced. Texas Genco was so satisfied with the first installation they have placed two additional orders for JVI equipment.

For stockpile reclaim, railcar unloading, and crusher feeding in the coal industry, JVI offers the ultimate electromechanical vibratory feeder - **engineered to order**. This feeder eliminates the maintenance issues inherent with belt feeders and natural frequency vibratory feeders. Based on JVI single mass technology, this JVI vibratory feeder delivers high capacities, repeatable performance and trouble free service.