

# Micro Motion® Flowmeters Improve Railcar Custody Transfer

## RESULTS

- Railcars now filled to capacity
- Railcar weighing no longer necessary
- Shipping time two days faster
- Less time in transit improves safety



## APPLICATION

A large chemical manufacturer located in the southeastern United States fills railcars with an expensive, volatile, organic material. The railcars are then shipped to a sister facility.

## CHALLENGE

The level in the storage tank was monitored to estimate the volume delivered to the railcar and avoid overflow. This method was very inaccurate. As a result, to ensure none of this hazardous material was spilled, the railcars were deliberately underfilled - often as much as 15% of the capacity of the railcar.

The loaded cars were then staged and weighed on the plant's weigh scales before shipment to obtain a quantity basis for custody transfer at the sister plant. This additional operation produced substantial delays and a bottleneck in the shipping process.

## SOLUTION

The manufacturer installed a 3-inch, custody transfer approved Micro Motion® Coriolis flowmeter at the loading rack. This meter included an integrated batch controller in the transmitter.

Because Micro Motion meters measure mass directly, they are highly accurate. As a result, every railcar is now filled to capacity. The Micro Motion system paid for itself with one full railcar.

[www.micromotion.com](http://www.micromotion.com)



*The Micro Motion meter paid for itself with the first full railcar.*



For more information:  
[www.EmersonProcess.com/solutions/chemical](http://www.EmersonProcess.com/solutions/chemical)  
[www.micromotion.com](http://www.micromotion.com)



## CHEMICAL

The Micro Motion metering system is Weights and Measures approved, so the manufacturer no longer needs to use the plant's weigh scales when shipping the railcars. Shipping time has been reduced by two days, which has expanded the capacity of the chemical manufacturer's shipping system. In addition, overall system safety has been improved significantly, since the volatile organic product spends less time in transit.

