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**Information provided by:**  
William Brumfield, Bulk Systems & Services

In Mississippi, William Brumfield of Bulk Systems & Services (Monitor's Representative in Southern Mississippi) faces a truly unique application and a first for the **SiloPatrol**® Inventory Monitoring System.

At a hydrated lime manufacturer, two **SiloPatrol** SMUs are operating on silos within a hostile environment. These silos are 24 feet in diameter and 60 feet tall with a cone measuring 20 feet in height. Both silos are filled with hydrated lime, a dusty material that can be very abrasive and corrosive.

Although the SMUs had been functioning reliably, the customer contracted Bulk Systems to service the units and change the cable every six months. Conducting the preventative maintenance proved to be a difficult job with the standard "K" flange bolted to the silo roof. A unique solution was devised by installing the SMU on an airtight access door. This allows Bulk Systems to inspect the plumb, change the plumb bob and cable without having to remove the unit or unwire it. The access is made of mild steel, uses a standard gasket and has a list price of approximately \$270.

Before incorporating the **SiloPatrol** system into their operation, the hydrated lime manufacturer was using Monitor's rotary paddle KA units for point level detection. In order to measure production at the

end of each shift, the silos were being sounded by beating on the sides with a hammer. It was clear that an inventory monitoring system was needed. A Milltronics ultrasonic unit was tested, before deciding on the **SiloPatrol** system, but it was found to be unreliable.

The addition of the access door has been very successful. While this application was the first, Brumfield promises that there will be many more. In fact, he plans to incorporate the design into **BulkSonics**® installations as well. ▼



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# News Briefs

## NEW VERSATILE RF CAPACITANCE LEVEL SENSOR

Monitor Technologies is launching the **NEW TrueCap®** Model MK-2e. Featuring a new look, this RF Capacitance sensor has been redesigned as a value-priced and versatile point level control.

Ideal for almost any point level application, the Model MK-2e has several standout features including a high sensitivity of 0.5pF and buildup immunity. The MK-2e is one of the only integral sensor units available that will accept 24VDC as its operating voltage.

Approvals are often an important factor when selecting a level control. The MK-2e carries the CE

Mark on all Ordinary location units. For Hazardous locations, the MK-2e is available with both Class I and II approvals allowing

one model to serve virtually any



application. Both the Ordinary and Hazardous location units are CSA<sub>US/CS</sub> approved.

Check out the MK-2e's new look! The twist on/off cover is easy to install and has two conduit entrances for convenient access. A high intensity LED is standard on all Ordinary location integral sensors providing local visual indication of power and material presence/absence without removing the cover.▼



Installed Model MK-2e

### LEVEL DETECTION FOR TIGHT SPACES

Utilizing RF Capacitance technology, Monitor's PAC-30U and PDC-30 proximity switches are ideal for a variety of bulk solid applications.

The proximity switches are solid state point level devices used to detect the absence or presence of bulk solids. The compact configuration makes this product ideal for tight spaces or low cost level detection. Monitor's proximity switches are easily installed and calibrated. Model PAC-30U is AC operated while model PDC-30 is DC operated. Both models have a 30mm industry standard housing and Monitor's two-year warranty.▼

