



**Packet Digital LLC and American Crystal Sugar Company
RFID pilot for the 2006 Beet Harvest a success!**

Fargo, North Dakota, 11/01/06

Packet Digital LLC was contracted by American Crystal Sugar Company to design and build an automated RFID system with GPS capability to enable beet tracking from field to pile. This RFID system records the field/grower information by load, truck, date/time, the GPS coordinates each load of beets came from in a field, the temperature at the time of harvest, and the GPS location of the beets in the beet pile after they are unloaded. The system needed to be hands free, error proof, and rugged.

Al Neisen, Computer Applications Manager for American Crystal Sugar Company, had this to say about the RFID pilot for the 2006 beet harvest:

“When the I/T Department at American Crystal Sugar was given the challenge to automate the beet receiving stations, to include no operator intervention, accurate yield mapping and beet pile management using GPS coordinates and RFID technology, I was initially concerned about the integrity of the data, and the ability to pay our Shareholders correctly for the loads they deliver.

Driving beet truck myself during harvest, I’ve seen all the different scenarios that go on in the field. Multiple trucks coming and going, sometimes getting stuck, multiple beet harvesters in the field, etc., I thought, how in the world are we going to make sure that the RF is talking to the right trucks, at the right time, for the right grower, and not talking to other trucks in the RF range, when they’re not supposed to?

After a few months of discussions with the Packet Digital team on the requirements of this system, and the concerns and issues that we had, I became more convinced that this could be done.

Together we developed a plan to pilot one of the beet receiving stations for the Fall harvest of 2006. The plan, which was developed by the beginning of June 2006, included 3 Grower Harvest Units, 6 beet harvesters, 23 trucks, 2 beet pilers and 1 scale house.

I was impressed with the quality of the products and service provided by Packet Digital. Not only did their products stand up to the harsh conditions of beet harvest, but the turnaround of the deliverables was remarkable. All hardware and software was delivered, tested and installed by mid-September 2006 in preparation for the September 30th beet harvest start up.

We now have a system that autonomously collects all the critical data from the field to pile storage. The system records the correct payment information for each truck load, provides yield mapping by each truck load, and a beet pile storage management system that records the location of the truck load in the beet pile and the ambient temperature at the time it was harvested.

Congratulations Packet Digital!”

This RFID system enables real time feedback to growers on loads delivered, enables field yield maps, and decreases yield loss by pinpointing the location of potential problem beets in an enormous pile.

Packet Digital LLC and American Crystal Sugar Company plan to expand the pilot in 2007 with an end goal of a full implementation within 2 to 3 years. The system will provide complete forward and backwards traceability of product throughout the ACS system,

About Packet Digital LLC

Packet Digital LLC is an innovator in the design and development of advanced power management, smart radio frequency identification (RFID), and wireless solutions. We focus on utilizing our intellectual property to create solutions that match specific customer needs.