The ACCU-DRAFT system is a revolutionary concept for monitoring river barges during the loading and unloading process. ACCU-DRAFT wirelessly transmits draft or freeboard readings accurate to 1/4 of an inch to the loader. This allows you to maximize your load while reducing trimming charges and hazardous “on deck” employee hours.

ACCU-DRAFT Improves your loading process:
- Reducing “on deck” employee hours
- Providing real time process information
- Eliminating manual recording of data
- Reducing trimming charges
- Reduce shipping costs
- Monitoring partially loaded barges

During loading ACCU-DRAFT displays:
- Start filling time
- Barge draft or freeboard
- List and trim measurement
- Sensor battery charge

How it works:

The ACCU-DRAFT System consists of four deck sensors. During the barge staging process the operator places a deck sensor on each corner of the barge. Each deck sensor contains an Ultrasonic Transducer that sends out a burst of pulsed sound waves 10 times per second. These waves reflect off the water and are received by the transducer. The time for the burst to travel to and from the water is measured and converted into a distance measurement. Wave action is averaged out so waves and wake have no affect on the measurement. The averaged measurement is then transmitted wirelessly to the operators workstation providing a real time reading.

Deck Sensors measure 24” x 7” x 7” and weigh 18 pounds.
Deck Sensors are available in high visibility yellow or orange and have color coded identification plates. The sensors weigh 18 lbs and are held to the barge surface using four flex-mounted magnets. This allows them to be oriented in any direction. This flexibility allows the ACCU-DRAFT to be incorporated into any facilities loading/unloading process. For increased safety each unit has a weather resistant deck lanyard.

Due to the dusty nature of barge loading environments the exterior case of the Deck Sensor is not watertight. The interior components are watertight so when water gets into the case the unit will not be damaged.

When loading is complete, the software stores the load information in the database. This data can be viewed and exported, eliminating the need to manually enter data. ACCU-DRAFT stores:

- Start time and draft or freeboard
- Finish time and draft or freeboard
- Commodity information
- Customer information
- Barge information
- Operator entered comments
- Operator ID

Each ACCU-DRAFT system includes:

- Four (4) Deck Sensors
- One (1) ACCU-DRAFT Receiver
- Eight (8) ACCU-DRAFT Batteries
- Four (4) Battery Chargers
- One (1) Receiver Antenna
- One (1) Foot Antenna Cable
- One (1) Lightning Arrester
- One (1) ACCU-DRAFT Software License