

DIXIE PIPELINE COMPANY
ENTERPRISE PROPANE TERMINAL & STORAGE COMPANY
NGL MEASUREMENT MANUAL (“MANUAL”)

1. General
 - A. The product measurement policies and procedures of Dixie Pipeline Company and Enterprise Propane Terminals and Storage Company (collectively, “Dixie”) contained or referenced in this Manual supersede all previous Manuals and instructions concerned with measurement and custody transfer of product.
 - B. This Manual incorporates by reference the following Enterprise Products Measurement and Material Balance (“MMB”) documents which are available at <https://portal.enterpriseproducts.com> :
 - i. Enterprise Liquid Measurement Policy (“Policy”)
 - ii. Enterprise Natural Gas Liquids and Purity Product Measurement Procedures (“NGL Measurement Procedures”)
 - C. Enterprise reserves the right to change the above documents from time to time.
 - D. Attached to this Manual is a description of Terminal Tank Truck Loading (Exhibit A).
2. Product specifications
 - A. Production specifications may be found in the various Dixie tariffs and are available upon request.
 - B. Moisture: Moisture is determined by Dixie’s moisture monitors and/or a freeze valve test. The Control Center receives an alarm when the product dew point reaches 20°F. The Control Center will initiate an injection shut down then the liquid phase dew point reaches +25°F or ASTM D2713. ~~the freeze valve test time is less than 60 seconds.~~
 - C. Temperature: No product with a temperature exceeding 120°F will be accepted for injection.
3. Sampling
 - A. All sampling will be per the Enterprise Policy and NGL Measurement Procedures.
 - B. Continuous sampling for gas chromatographs (“GC”) will be installed at all injection/delivery points. GC results will be available to the Control Center.
 - C. Propane moisture monitoring will be on a continuous basis with instrumentation readings available to the Control Center.
 - D. Meter Tickets should include the following:
 - i. Opening and closing totalizer readings for the period of the ticket
 - ii. Net barrels (difference in totalizer readings)
 - iii. Start and finish time and date for the ticket period
 - iv. Specific gravity (note: propane is a generally a fixed specific gravity of 0.505)
 - v. Product
 - vi. Location, code number, ticket sequence
4. Flow computers
 - A. Unless approved by Enterprise MMB, all custody meter facilities will have a dedicated flow computer.
 - B. Upon request, the connecting party has the right to review flow computer setups and programming.
5. Meter proving intervals and reports

- A. Receipt and delivery meters shall be proved at the intervals:
 - i. Per the contract; or, if not stated,
 - ii. Per the Enterprise Liquid Measurement.
- B. Provelt or the flow computer will generate the proving report.
- C. For truck meters, the TopTech systems are to be proven according to local operating procedures, which shall meet or exceed the standards in the Policy.

Enterprise References:

Exhibit A: Truck Rack Loading

Exhibit A
Terminal Truck Loading

1. Dixie's Terminal loading docks are equipped with a TopTech System that allows and controls automatic loading by the truck drivers by use of assigned Driver Numbers that uniquely identify the trucking company and the individual truck drivers. The truck driver enters his assigned Driver Number and verifies his identity via fingerprint scanner or PIN and then follows the prompts shown on the TopTech Multiload "Staging" RCU.
2. After staging the load, the driver positions the transport at the next available loading bay. The driver will enter their driver number into the "Preset" RCU located at the loading bay. The driver will confirm the load information is correct and follow the prompts on the display. If all checks are satisfactorily performed, the driver then enters a desired PRESET amount of net allowable gallons into the TopTech System to initiate loading.
3. On completion of the loading process, the driver exits the TopTech Multiload "Preset" RCU which begins the transmission of the load data to the TopTech Multiload "Staging" RCU located in the Terminal Office. The driver then inputs his Driver Number and scans his fingerprint or inputs his PIN into the TopTech Multiload "Staging" RCU for ID verification at which time the Bill of Lading (BOL) is printed. The BOL contains identifying information of Driver, Shipper and Consignee in addition to time, date, product, and gallons loaded. On completion of the BOL, the Driver will remove the copies from the BOL printer, retain them and then distribute them accordingly.
4. Each morning, the terminal operators will:
 - A. Record the truck meter totalizer readings.
 - B. Pull the daily additive report to ensure that each load was odorized in compliance with both company policy and regulation. [1 1/2 pounds per 10,000 gallons except for the loads scheduled for delivery to Louisiana which require 2 pounds per 10,000 gallons].
5. Calculate the prior day's total load volume in BBLs using the daily additive report.

Enterprise reserves the right from time to time to make changes to this Exhibit so as to reflect current operating practices for truck rack loading on the Dixie Pipeline Company and Enterprise Propane Terminal and Storage Company systems.