

FuelsManager Defense - Quick Start Guide

Tank Gauging Collapsible Fabric Fuel Tanks (TB 10-5430-253-13: Dec 2009)

Every attempt should be made to perform physical inventory gauging of the Collapsible Fabric Fuel Tank (CFFT) at the approximate same time each day using the same personnel. Slight changes to procedures can lead to fluctuations in physical inventories.

For assistance, contact the Help Desk at: DSN: 312-697-6733, Commercial: 1-800-446-4950, or email: BSME.Helpdesk@dla.mil

Pull cord taut and ensure it is not touching the bag at any point. Also ensure the cord is level by using a line level.

Read the height on the gauging stick to the nearest one-eighth inch.

Record the height of the bag and convert to gallons.

Subtract the distance from the bottom of the cord to the surface of the bag to find the final height of the bag.

Example Calculation	Measurements
Gauging Stick Measurement	47"
Vent Pipe/Cord Correction	1.5"
Final Tank Height	45.5"

All gauging should be conducted from the same reference point to maintain consistency.

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Gauging Procedures:

- a. Secure the cord to the bottom of the vent pipe on the bag.
 - b. Measure the distance from the bottom of the cord to the line surface of the bag. Record the distance. This shall be completed when the cord is initially secured to the vent pipe.
 - c. Determine the reference point (see Reference Point procedures below). All gauging will be conducted from this reference point to maintain consistency.
 - d. Attach line level to cord.
 - e. Place the gauging stick on the reference point to ensure the stick is plumb.
 - f. Pull the cord taut ensuring the cord is level and not touching the bag.
 - g. Read the height on the gauging stick to the nearest one-eighth inch.
 - h. Subtract the documented distance between the cord and the surface of the bag.
 - i. Record the bag height and convert to gallons.
- ## Procedures to Determine the Reference Point:
- a. Secure the cord to the bottom of the vent pipe on the bag.
 - b. Measure distance from the bottom of the cord to the surface of the bag. Record the distance.
 - c. Pick and mark a spot next to the bag, perpendicular to the vent pipe. Attach the line level to cord.
 - d. Place gauging stick on reference point ensuring the stick is plumb.
 - e. Pull cord taut ensuring that the cord is level and does not touch the bag.
 - f. Read the height on the gauging stick. Subtract the documented distance between the cord and the bag surface.
 - g. Perform steps c through f on all sides of the bag.
 - h. Add the measurements from all four sides. Divide the total by four, which will be the average height of the bag.
 - i. The reference point will be on the side of the bag where the measurement was closest to the average height. Mark the spot where the measurement was taken. This is the reference point.

BRAG Ratings:

These are based on inspection criteria in TB 10-5430-253-13: Dec 2009 (Collapsible Fabric Fuel Tanks).

1. Black: Non-mission capable (NMC); non-repairable; discontinue use immediately.
2. Red: Displays evidence of failure but able to use at 50 % of maximum storage capacity.
3. Amber: Signs of deterioration but able to use at 70 % of the maximum storage capacity.
4. Green: Fully mission capable (FMC) able to use to 100 % of maximum storage capacity.

BRAG Data:

Bulk Storage Tank Record (BSTR) – Used to document all data regarding a specific CFFT. This includes the following data items: Service Date or Wet Date (when the CFFT went into service) and all defects from the date of installation forward. The goal is to standardize the use of the BSTR throughout the Theater and Corp areas.

Inspection Cycle – Inspections shall be conducted on a daily basis to include berm liners. Any defects will be updated on the BSTR.

BRAG Sections – The BRAG rating system analyzes the following CFFT areas: Fabric Panels, Seams, Corners, Seam Separations, Blisters, and Fittings.

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