



VT-018

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CES

LNG STORAGE TANK NER TEST

This procedure covers Normal NER (Evaporation Rate) testing for LNG tanks.

Equipment needed:

- a. Totalizing flow meter, calibrated for the measuring medium
- b. Hoses

1. Fill the vessel to be tested approximately 50% full with the testing medium. It is recommended that liquid nitrogen be used for greater safety.
2. Determine Gross Volume of tank, and calculate volume of gas that the liquid that vessel can contain is equivalent to.
3. Open vent and allow vessel to vent for a minimum of 24 hours to reach equilibrium.

4. Connect flow meter to vent and measure gas flowing from vent line. **Note:** Ensure all other valves are closed.
5. Record Data every 6 hours.
6. Continue test for a minimum of 48 hours.
7. Determine NER
 Total Flow divided by total time = hourly rate.
 Hourly rate x 24 = Daily Rate.
 Daily Rate divided by total gross capacity of the tank=% (percent) NER/Day.
 If Nitrogen was used as a test medium, the result must be divided by 1.67 to obtain the equivalent LNG NER.
8. Compare to specified NER.

Date: _____.		Serial No: _____		Test Medium: _____	
Tank Level after fill: _____ (Should be ~50% of Capacity)			Hrs Vented after fill _____ (Min 24 hrs)		
Time	Total Flow				
0					
6					
12					
18					
24					
30					
36					
42					
48					