

MONITORING OF A SEALED AND THERMALLY INSULATED TANK

ABSTRACT

A method for monitoring a sealed and thermally insulated tank (1) intended to contain a low-temperature liquefied fuel gas, in which method a wall of the tank comprises a thermally insulating barrier (3) arranged between the sealing membrane and the bearing wall, the thermally insulating barrier comprising insulating solid substances and a gaseous phase kept under a negative relative pressure, the method comprising: obtaining a sample of dilute gas by withdrawing a sample of the gaseous phase under negative relative pressure in the thermally insulating barrier through a sampling duct (11) and by adding a controlled quantity of inert gas to the gaseous phase that is to be withdrawn or that has been withdrawn, raising the pressure of the dilute gas sample up to an operating pressure of a gas analyzer (25), and measuring a concentration of fuel gas in the dilute gas sample using the gas analyzer.

Figure to be published: 1