



Interoffice
Communication

To: Distribution

From: E. Smith

Date: August 19, 1997

Subject: **VCM Level Using Dual Pressure Transmitters**

The attached calculation sheets include the calculations and assumptions for determining the level in the New Module Fresh VCM Receiver DM-999 and the Sphere PV-001 using pressure transmitters. One of the pressure transmitters is located on the bottom of the vessel and the other in the vapor space at the top of the vessel.

Three equations are included. Equation 1 may be used to calculate the level of VCM, in feet, at 70°F using dual pressure transmitters. Equation 2 is an estimate of VCM density as a function of temperature. Equation 3 may be used to calculate the level of VCM, in feet, at any temperature between -22°F to 122°F using dual pressure transmitters and a temperature measurement.

Also attached is information regarding the current method for determining VCM Receiver level.

A handwritten signature in cursive script that reads "Erik Smith".

Erik Smith
Project Engineer

Distribution: ACW, JRH, TRM, DEK, File 2.50.0

attachments