Table 11.10.b.: Reduction of Underground or Mounded ASME LPG Tank Separation Distances

ITEMS	REQUIREMENTS FOR REDUCTION OF SEPARATION DISTANCES FOR ASME UNDERGROUND OR MOUNDED LPG TANK INSTALLATIONS
4. LOW EMISSION TRANSFER	i. The delivery valve and nozzle combination shall mate with the filler valve in the receiving container in such a manner that, when they are uncoupled following a transfer of product, not more than 4 cc (0.24 in.3) of product (liquid equivalent) is released to the atmosphere. ii. Fixed maximum liquid level gauges shall not be used to determine the maximum permitted filling limit at a low emission transfer site. iii. The maximum permitted filling limit shall be determined by an overfilling prevention device or other approved means. iv. Where fixed maximum liquid level gauges are installed, a label shall be placed near the gauge providing the following instructions: "Do not use this fixed maximum liquid level gauge at low emission transfer stations." v. Where transfer is made through a hose of nominal 1-in. (2.5-cm) size or smaller, the delivery valve and nozzle combination shall not contain an interstitial volume greater than 4 cc (0.24 in.3). vi. Where transfer is made through hose larger than 1 in. (2.5 cm) nominal size, no more than 15 cc (0.91 in.3) of LP-Gas (liquid equivalent) shall be released to the atmosphere than 15 cc (0.91 in.3) of LP-Gas (liquid equivalent) shall be released to the atmosphere during the transfer operation including the uncoupling of the transfer hose. vii. Fixed maximum liquid level gauges on low emission transfer systems shall be installed and used to verify the (function) accuracy of liquid level gauges or other liquid level gauging devices. viii. Fixed maximum liquid level gauges shall not be used in the routine filling of low emission transfer systems. ix. The use of a float gauge or other approved non-venting device for containers of 2001 Gal. or larger water capacity shall be the only means for determining the maximum filling limit. x. The maximum filling limit for containers of less than 2001 Gal. water capacity in low emission transfer systems shall be controlled through the use of an overfilling prevention device or other device approved for this service.