Hydrocarbon blanketing system for FPSO vessels

Volatile Organic Compounds Reduction
Inert gas used as blanket gas, may contain as much as 90% of VOC (Volatile Organic Compounds) at the end of a loading period. These emissions represent both an environmental damage and an economical loss.

By introducing hydrocarbon blanketing, the VOC emission can be eliminated. During unloading, HC gas is taken from the production process into the storage tanks. During normal oil production, the hydrocarbon gas is recovered in the production process. This means zero emission and 100% VOC recovery.

Both oil and gas export will increase due to reduced evaporation of oil, and recovery of VOC. Other benefits are elimination of formation of hydrocarbons clouds during calm weather, redundancy of the blanket gas system and reduced corrosion problems caused by the inert gas generator system.

By combining HC blanketing with vapour recovery and flare gas recovery, a substantial reduction in emission can be achieved. Hamworthy T&P has experience in both these areas and can do the engineering and supply the necessary equipment.

Hamworthy T&P performs feasibility studies and process simulations to assist in the selection of the optimal solution for a given application. The company offers engineering services for integration into existing process systems.