

CHAPTER 7 FLOODING

7-1. General. Air strippers depend on a balance between air and water to provide the necessary intimate contact within the stripper. The induced turbulence within the system provides the energy required for separation of the volatile organics from the water. The air carries the volatiles away from the water.

7-2. Occurrence of Flooding. Excess airflow will cause flooding in air strippers, regardless of type. Extra blower head requirements (i.e., for “future” additional trays) should not be “thrown in” as a safety factor without providing an orifice plate to “burn up” the excess head. Obviously, if this is done, energy is wasted in oversizing.

7-3. Blower. A centrifugal blower can be modified to reduce the air output by changing or trimming the impellers. Impeller must be trimmed properly to maintain blower balance. Changing the blower sheaves and belts can change the speed and corresponding output of belt driven blowers.