CHAPTER 8
PROCESS CONTROL

8-1. General. The pumps delivering the water and the blowers delivering the air are packaged with contacts, controllers, and appropriate alarms.

8-2. Level Controls. If the plant hydraulics or sampling requirements mandate that the effluent sump can not overflow, it must be equipped with level control and level alarms to prevent this. Feedback from the effluent sump level should turn the well or influent pumps down or off and activate an alarm when the sump level setting is exceeded. The controller for effluent pumps should allow alternating operation of lead, lag, and stand-by pumps, with low and high level alarms and pump control over-ride functions.

8-3. Pressure Controls. Feedback from the air stripper pressure sensors mounted in influent and effluent piping should turn down or shut off the blower and activate the alarm when the differential pressure across the stripper begins to rise. For energy economy, the blower control should also be interlocked with water flow to the stripper. The pressure differential disappears if the blower fails.