

II. GENERAL PROCESS DESCRIPTION (CONTINUED)

G. Water Swirl (Continued)

charge line into the reactor. When the water charge reaches a preset amount, the water charge system is automatically shut down. The reactor agitator is then used to swirl the water for approximately 25 minutes. The lead operator then drains the water to the sewer. This completes one reaction cycle; the reactor is now ready for evacuation.

H. Blowdown Collection System

Various waste water streams from the process must be collected in an enclosed system for treatment. Water streams containing PVC and VCM from the recovery system, the VCM storage tanks, line and vessel purges, and miscellaneous flush and seal waters are intermittently sent to the blowdown tank.

When the liquid in the blowdown tank reaches a level 22 inches from the top of the tank, a high level alarm sounds in the control room. At the discretion of the operator, the water in the blowdown tank is steam stripped at 175°F and 16 inches Hg vacuum, using the reactor recovery system.

The vapors from the blowdown tank are recovered in the manner previously described in the recovery section of the process description. Due to the operating pressures of streams collected in the tank, the pressure in the blowdown tank should be minimized.

II. GENERAL PROCESS DESCRIPTION (CONTINUED)

H. Blowdown Collection System (Continued)

When the recovery and stripping of the blowdown tank is completed, the lead operator activates the blowdown tank pump. The water is strained of PVC particles and is sent to the sewer. During draining, steam is used to maintain enough pressure in the tank to allow operation of the blowdown tank pump. When the liquid level drops to 12 inches from the bottom of the tank, the draining process is automatically stopped.

VII. EQUIPMENT ENTRY PROCEDURE

EPA standards for VCM emissions and OSHA regulations on personnel exposure to VCM require that certain operating procedures be followed when there is the possibility of VCM emission to the atmosphere or personnel exposure to VCM. For this reason and to ensure safe working conditions at all times, the "Engineering and Work Practice Control Program for the Reduction of Employee Exposure to Vinyl Chloride" manual should be consulted whenever equipment in the reactor area is opened for any reason. This manual contains a list of detailed procedures as well as safety precautions for equipment opening.

THESE PROCEDURES WERE REVISED ON JAN. 15, 1978.