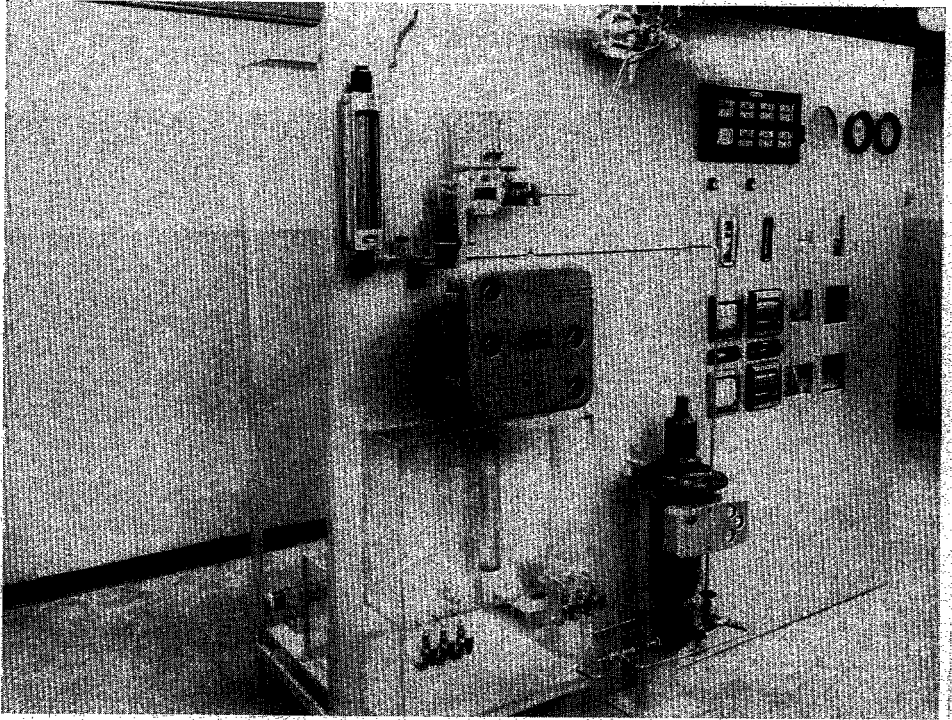


Refinery Control Visual Aid



At the Baton Rouge, Louisiana, refinery of Humble Oil & Refining Company, a new demonstration instrument panel brings a working sample of refinery controls into the classroom for 20 new employees who are training to become instrument technicians. A system of overhead air lines connects the instruments with controls located at each two-man workbench and desk, just a few feet away in the same room. Mounted on wheels, the demonstration panel can be rolled in front of any desk. Liquids flow through clear plastic piping on the face of the board, simulating the movement of feedstocks or products and making it possible for the students to see what happens when they regulate the various controls. Class members can plug their

controls into the air-line system through connections directly above their workbenches. The instruments demonstrate such operating conditions as flow rates, pressure and liquid levels. Temperature controls are being added to increase the value of the new training aid. One instrument can be lifted out easily and another substituted, as may be required when the class moves from one subject to the next. In addition to classroom work in science, mathematics, electronics and other subjects related to oil refining and petro-chemicals, the trainees will spend most of their time working directly with experienced instrument technicians and also will receive four hours of on-the-job instruction each week.