

LEVEL AND FLOW CONTROL SYSTEM

LOCAL MODE OF OPERATION

In **local mode**, both controllers operate independently. The **flow controller** (FIC-600) manages the inflow into the tank based on a set point, adjusting a valve to maintain a constant flow. Meanwhile, the **level controller** (LIC-600) regulates the tank's outflow to maintain a stable level. Flow is indicated on FI-601. Student Loading Station #1 is not used in this mode, allowing observation of system responses on the trend page.

Remote Mode of Operation

In **remote mode**, the tank level is managed by adjusting the inflow while maintaining a constant outflow, selectable by the user. Here, the level controller sends a set point to the flow controller (FIC-600), which then controls inflow. Outflow is held constant by **Student Loading Station #1 (HIC-600)**.

To switch smoothly between local and remote modes, a **Bumpless Transfer** process is applied, maintaining a stable level during control transfers.

