





Figure 3-3. Voter Relay Configuration

Whenever two of the three speed-sensing circuits sense an overspeed condition, the voter relay configuration will change state, causing a turbine trip. It should be noted, however, that a single MPU or circuit failure will not cause an inadvertent trip.

This configuration makes testing of the voter relays in the system a relatively simple operation. Six relay status indicator LEDs (STATUS A1, STATUS A2, STATUS B1, STATUS B2, etc.) are mounted on the control panel. Each LED is on when its corresponding relay is tripped. You may overspeed each of the three speed-sensing circuits, one at a time, using a built-in frequency generator. You may then watch the LED indicators and the speed readout to see that each of the six individual voter relays trip at the correct speed. Because of the series/parallel configuration of the trip relays, overspeeding one of the speed sensing circuits at a time will not disturb the load.