

6/17/99

To: Operators / Technicians
From: Luis Murray
Subject: Vertex's Power Reset Procedure

In the event of a failure in the Vertex System that can not be cleared from the OCU, the authorized person will set all axes to "STOP" position and then will go to the platform to inspect the system.

Power-Down Reset Procedure for LCU (Vertex Shack).

- I. Open cabinet door #6 (figure 1). Inside are the LCU computer, monitor and keyboard. The monitor shows the system status.



FIGURE 1

- II. There is a row of buttons on cabinet door #2 (figure 2). Press the buttons in the following sequence:

- a. POWER OFF
- b. POWER ON
- c. FAILURE RESET

Check the LCU monitor to see if the "FAULT" condition has cleared. If so, try moving all axes from the LCU to make sure everything is working fine. If the "FAULT" wasn't cleared, repeat the a. b. c. sequence. If the "FAULT" condition is still there, go to step III.

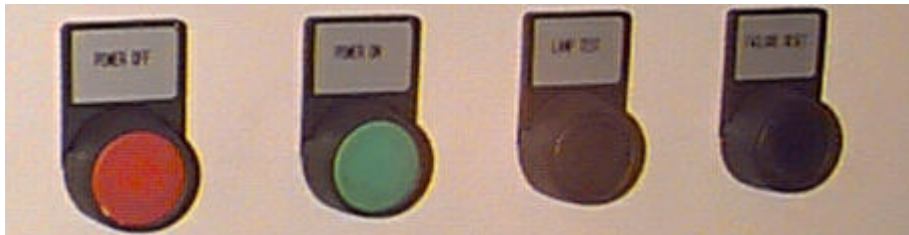


FIGURE 2

- III. Open the cabinet door #4. Check the regeneration boards (figure 3). If any of the boards have the red indicator LED “fully on”, make a note of the suspicious board, close all cabinet doors and contact Electronics Department. If none of the red indicator LEDs are “on” go to step IV.

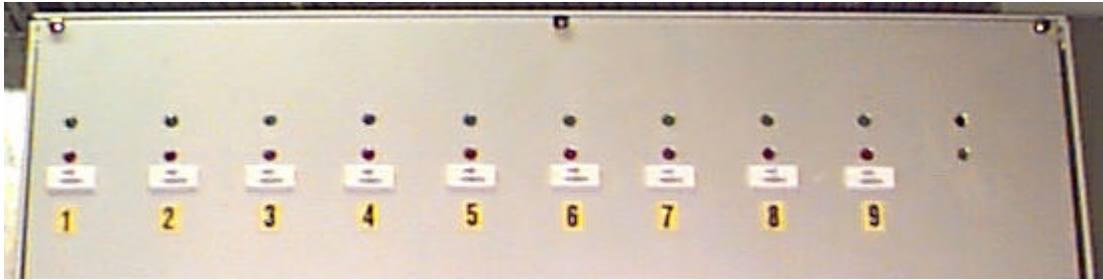


FIGURE 3

- IV. Open cabinet door #1. The master switch (big red handle) must be in the “on” position (vertical). Turn the handle counter-clockwise to the “off” position (horizontal), as shown in figure 4. Wait at least 5 minutes to allow the power supplies and amplifiers to drain their stored energy. Go to step V.

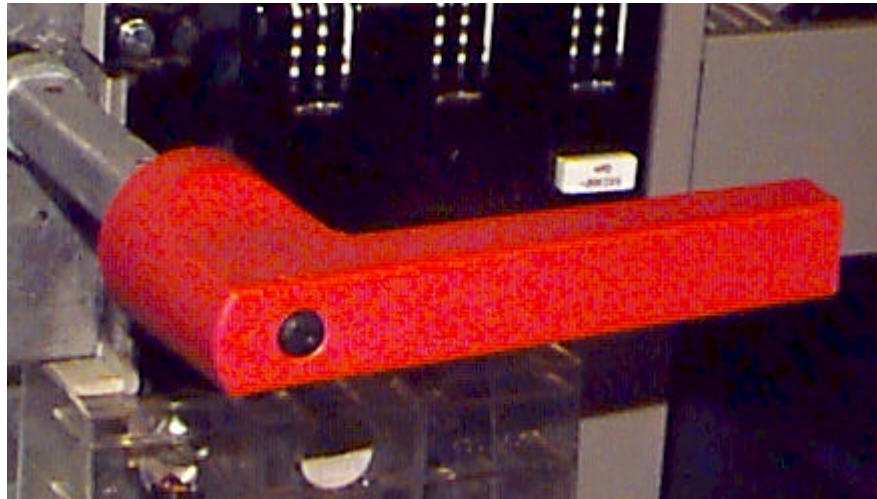


FIGURE 4 – Off Position Shown

- V. Before re-energizing the system, inspect the LEDs in all Kollmorgen power supplies and amplifiers (figure 5), they should all be off. If any of them are lit you will have to wait until they are completely “off”. A lit LED on a power supply or amplifier indicates that it still has stored energy and therefore needs more time to discharge.



FIGURE 5

- VI. If no LEDs are “on” return the master power switch to the “on” (vertical) position.
- VII. Wait 1 minute, then repeat the a. b. c. sequence described in step II. Check the LCU monitor to see if the “**FAULT**” has cleared. If so, try to move all axes from the LCU to make sure everything is working fine. If everything works fine, close all cabinet doors. Record the event on the “Log Book”.