TecNote 5001 - BIU Troubleshooting Checklist

The following checklist can be used to troubleshoot BIU problems in a TS2 type 1 cabinet. In addition, the SDLC messages should be recorded in the field using a form similar to the one provided here.

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1. Power LED is ON SOLID

CAUSE:

-24VDC power is at an acceptable level

-Power supply frequency reference is present

-BIU is not going through reset

ACTION

-No action is necessary because this is proper operation

2. Power LED is OFF

CAUSE:

-BIU is being held in reset

-24VDC is well below acceptable operating level (18VDC)

ACTION

-Verify the voltage level on the 24VDC supply at the BIU, it should be greater than 22VDC

3. Power LED is BLINKS SLOWLY (½ sec ON, ½ sec OFF)

CAUSE:

-24VDC is below acceptable operating level (18VDC)

 ACTION

-Verify the voltage level on the 24VDC supply at the BIU, it should be greater than 22VDC

4. Power LED is BLINKS RAPIDLY (¼ sec ON, ½ sec OFF)

CAUSE:

-Power supply frequency reference is not present

 ACTION

-Verify presence of frequency reference signal at BIU

 -Verify that the frequency reference signal travels from the power supply, to the back-panel, to the BIU connector

5. Power LED is FLICKERS ERRATICALLY

CAUSE:

-BIU is passing through reset

ACTION

 -Verify that the Comm TX light is blinking appropriately, if not then reference trouble-shooting steps for Comm.

-Verify the voltage level on the 24VDC supply at the BIU, it should be greater than 22VDC

6. Transmit LED is BLINKS RAPIDLY (10 times/sec)

CAUSE:

-BIU is transmitting data

 ACTION

-No action is necessary because this is the normal operating mode

7. Transmit LED is ON SOLID

CAUSE:

-BIU is failing to receive SDLC data

 ACTION

-Verify that an SDLC signal is present at the BIU

-Verify that the SDLC cable is properly connected to the BIU

-Verify that the controller is configured to use the BIU

-Verify that the hardwired BIU address is properly set on the BIU connector board

8. Transmit LED is OFF

CAUSE:

-This is an invalid mode of operation

 ACTION

- This is an invalid mode of operation