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## SLC4075TechNote215 FailureToLoadProgram

12/18/22

### 1 Program Restoration Procedure

- Remove control power to the entire Selectronix Building Management Interface.
- Wait at least 15 seconds.
- Apply control power.
- If the program loads, jump to the **Power Quality Work-Arounds**.

#### 1.1 Restore from database

- Obtain the original site-specific touchscreen database from the original boiler manufacturer.
  - If unsuccessful, contact Selectronix as a secondary source and provide:
    - Boiler Manufacturer
    - Single or Multiple configuration
    - Boiler type (Hot water or steam)
    - Boiler energy source (Electric or fuel-based)
- See *SLC4075TechNote208\_DatabaseAndEthernetAddressModificationProcedure.pdf*, available at [selectronix.us](http://selectronix.us) in the Support section. It contains step-by-step instructions on the 3 methods that may be used to restore the user program.
  - This contains information on creating the image file for an SD card backup.

### 2 Power Quality Work-Arounds

- Power the SLC4075 touchscreen by a separate 24Vdc *switching power supply*. This provides a larger margin for momentary dropouts and transients. *Available from Selectronix as SLC4076.*
- Install an SLC4082, Line Filter to minimize conducted EMI. Connect the output to the 24Vdc power supply, SLC4060, and SLC4000 master. Do not connect the filter output to the RLYCOM terminal of the SLC4000.
- Available from Selectronix as SLC4076.
- Install an SD card with the image of the original database. A guaranteed compatible SD card is available from Selectronix as SLC4030. It is pre-formatted with Crimson and pre-loaded with the applicable database when available.
  - Optionally, obtain an SD card, locally. **This SD card must be able to be formatted by the Red Lion Crimson 3.1 software while installed in the touchscreen.** *Note that several of the large-capacity SD cards may not be compatible with the touchscreen, indicated by a “Failure to format” diagnostic message.*
  - Load the SD card with the image created by the applicable database.
    - Verify the touchscreen displays that it is verifying the image when loading.
  - *The user program will be automatically reloaded from the SD card, if the internally stored database is corrupted.*

## 3 Minimum Program Parameter Verification

Referenced Page numbers may be different depending on firmware version.

### 3.1 Hot Water Boilers

- Page 1
  - “Aux/DDC” (“Aux/BMS”) switch set to “DDC” (or BMS)
- Page 3 **PID1**
  - PID1 Mode Select = 1 Heat Mode DDC
  - Verify Unmodified Setpoint (Unm Setpt) set as desired
  - Verify SPM1 Source Select (Usually ‘0’)
  - Verify Proportional, Integral, and Derivative set as desired
  - Verify Engr Units set as desired (‘1’ for Degrees F)
- Page 5 **PID2**
  - PID2 Mode Select = 0 Disabled
- Page 7 **RTD**
  - Verify the temperature for RTD1 is reasonable for the current condition.
- Page 9 **GPDI**
  - Verify the items are as expected with no active alarms.
- Page 19 **Communication Assurance**
  - Verify “PGW Exists: ON” is displayed
  - Verify “TSGW POLLED: ON” is displayed.
- Page 20 **CLL Classic Lead/Lag**
  - Verify desired boiler switch are set to ‘ON’.
  - Verify Profile Select is set as desired.

### 3.2 Steam Boilers

- Page 1
  - “Aux/DDC” (“Aux/BMS”) switch set to “DDC” (or BMS)
- Page 3 **PID1**
  - PID1 Mode Select = 0 Disabled
- Page 5 **PID2**
  - PID2 Mode Select = 1 Heat Mode DDC
  - Verify Unmodified Setpoint (Unm Setpt) set as desired
  - Verify SPM2 Source Select (Usually ‘0’)
  - Verify Proportional, Integral, and Derivative set as desired
  - Verify Engr Units set as desired (‘4’ for PSI)
- Page 8 **GPA**
  - Verify the pressure is reasonable for the current condition.
- Page 9 **GPDI**
  - Verify the items are as expected with no active alarms.
- Page 19 **Communication Assurance**
  - Verify “PGW Exists: ON” is displayed
  - Verify “TSGW POLLED: ON” is displayed.
  - Verify desired boiler switch are set to ‘ON’.
  - Verify Profile is set as desired
- Page 20 **CLL Classic Lead/Lag**
  - Verify desired boiler switch are set to ‘ON’.
  - Verify Profile Select is set as desired.

For additional questions email [techsupport@selectronix.us](mailto:techsupport@selectronix.us) or call us.