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| Test Writer | | Daniel Henderson | | | | | |
| Test Case Name | | Controls Board Test | | | | Test ID# | CT-IT-1 |
| Description | | Verify that the controls board works | | | | Type | Black Box |
| Test Information | | | | | | | |
| Name of Tester | |  | | | | Date |  |
| Hardware Version | | Controls Board Rev A | | | | Time |  |
| Setup | | Power the controls board by slotting into powered backplane, or connecting wires to the labeled power pins and using a 5V 1A benchtop power supply. Connect USB cable to port and computer, connect STLink programmer to JTAG port and computer. Open the terminal and the SW4STM project code. Prepare oscilloscope. | | | | | |
| Step | Action | Expected Results | Pass | Fail | N/A | Comments | |
| 1 | Power on the board | All labeled power pins/test points are at their labeled levels when probed w/ scope. |  |  |  |  | |
| 2 | Load code onto board using same procedure as Nucleo dev board | IDE recognizes the chip and code loads successfully. |  |  |  |  | |
| 3 | Connect to terminal (9600 baud) | Terminal says it sees and is connected to serial port |  |  |  |  | |
| 4 | Send strings via terminal | Observe received echoed strings |  |  |  |  | |
| Overall Results | | |  |  |  |  | |