1 Power busway testing procedure

1.1 Visually inspect each joint stack of the busway run for proper alignment.

1.2 Establish the busway method of grounding
   1.2.1 New busways typically have a case ground
   1.2.2 Existing systems that are being repaired or extended may have a ground bus bar or case ground
   1.2.3 If the busway has a case ground perform the check listed below for the ground bus bar

1.3 Isolate each bus bar at both ends of the busway run including ground and neutral
   1.3.1 Verify that there is complete separation of each phase, neutral and ground bus bar

1.4 Perform a continuity check for each phase, neutral and ground bus bar as follows:
   1.4.1 Route an insulated wire from one end of the bus run to the other.
   1.4.2 Test each phase, neutral and ground bus bar one at a time and using the wire to complete the circuit
   1.4.3 Check for continuity of each phase, neutral and ground bus bar
   1.4.4 Verify no continuity to each of the following:
      1.4.4.1 The remaining phase bus bars
      1.4.4.2 The neutral bus bar
      1.4.4.3 The ground bus bar

1.5 After continuity has been verified for each phase, neutral and ground bus bar, terminate the ground bus at each end of the busway run. Make sure the ground bus bar is bonded to the equipment ground bus in the appropriate switchgear.

1.6 Verify continuity between the busway ground bus bar and the building system ground.

1.7 Verify continuity between the busway ground bus bar and the equipment ground bus in the appropriate switchgear

1.8 Verify continuity between the busway ground bus bar if there is one and the busway case.

1.9 Perform a Megger test (insulation resistance test)
   1.9.1 Between each phase and neutral bus bar to the ground bus terminal
   1.9.2 Between each opposite phase
   1.9.3 Perform Test at 1,000 VDC and record the readings
   1.9.4 Example of Megger test:
      - “A” Phase to – Ground
      - “A” Phase to – Neutral
      - “A” Phase to – Phase “B”
      - “A” Phase to – Phase “C”
      - Repeat for “B” and “C” phases

1.10 Reconnect each bus bar at both ends of the busway run including neutral.

1.11 Install all covers