



INFORMATION TECHNOLOGY POLICY/PROCEDURE/PROCESS

Title:	Power Testing for Data Centers	Policy Number: 713
Effective:	August 24, 2016	
Supersedes:	N/A	
Approval:	Tom Shewchuk, IT Director	Page 1 of 2

Purpose

Document standards for power protection for computing equipment in City of Ann Arbor data centers (located in the Justice Center and Wheeler Service Center).

Standards

Information Technology relies on multiple methods to keep power running reliably to protect key networking and server computing equipment.

The data center located in the Justice Center building utilizes both a Liebert NX 120kva UPS and Enersys cabinet containing 2 x 40 battery strings. This 3 phase unit distributes power to each of the equipment racks where each of the devices located in these racks have their power distributed across multiple phases. By requiring dual power supplies in each device and connecting each of these power supplies to separate power phases, we've achieved the highest redundancy possible.

The data center located in the Wheeler Service Center datacenter building utilizes both a Liebert NX 80kva UPS and Enersys cabinet containing a 40 battery string. This unit and all connected equipment follow the same guidelines as the Justice Center data center.

Each of these units and their associated battery strings have maintenance/inspections performed twice yearly.

In addition, we are relying on the City's generators and power provided by Facilities. The generators at both facilities are exercised weekly. Facilities tests each facility twice yearly. One of these tests is a load test, in which the generators are activated and feed power into a bank of resistors to see how they handle a load draw.