

- B. Each NSS server shall utilize a minimum of two, integrated, hot swappable power supplies. Each power supply shall be sized to carry the load of the entire system. The redundant power supply shall operate in a “hot-standby” mode of operation.

## 2.10 REDUNDANCY

- A. The NSS system shall be comprised of two, totally independent systems configured on two separate Local Area Networks (LANs). The separate LANs shall be connected as a WAN to support communications between the two systems that shall function in a dual-master (hot standby) configuration.
- B. One NSS shall be installed at the primary server room, and a second shall be installed at the backup server room.
- C. The NSS shall be configured so as to automatically initiate synchronization within one second for any change of status or for a resynchronization due to break and subsequent reconnection of link. This synchronization is to be maintained so that the two systems constantly and accurately reflect each other. Synchronization time shall be minimized to prevent interference with other functionality.

## 2.11 SPARES, TOOLS AND TRAINING

- A. A minimum of quantity of 2010% additional units rounded up to the nearest unit of each major device or component (LRU) shall be supplied.
- B. Training on the NSS systems shall be supplied to SEPTA staff in accordance with the Training Section of this specification. Training shall include the core NSS as well as interfacing, configuration, management and maintenance of all security related functions of the devices under the domain of the NSS. Training shall encompass all necessary material to provide allow for SEPTA maintained NSS.

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. The Contractor shall furnish and install NSS devices, hardware and software as required herein and as otherwise required for a fully functioning NSS.

### 3.02 TESTING

- A. Through testing and inspection, the Contractor shall verify the NSS meets Contract specifications and all technical and performance requirements. The Contractor shall test and inspect all items of hardware and software specified herein and furnish test results to the SEPTA Project Manager. Test cases shall be reviewed by the SEPTA Project Manager.
- B. Tests and inspections shall be conducted according to procedures submitted by the Contractor and approved by the SEPTA Project Manager. The Contractor shall submit a Test Plan and a Test Procedure to SEPTA.
  - 1. Test Plan. The Test Plan shall consist of a broad but complete overview of the intended tests to be performed, test methodology for demonstrating compliance to