

For the existing WIN Exports and CIDA Decentralization networks, please consult with TPP and MSS respectively if you are anticipating replacement of your current file servers.

## Uninterruptable Power Supply (UPS)

Posts with frequent power outages should consider UPS units. These units should provide enough battery backup power to enable **users** to perform a graceful shutdown of their workstation. **UPS UNITS ARE A MUST FOR FILE SERVERS RUNNING ON A LOCAL AREA NETWORK. System administrators should be allowed to perform an orderly shutdown of the network.**

When selecting a UPS you should consider the following points:

- 1) **Battery Backup:** a good rule of thumb is to have a backup system that will provide power to the file server to 15 minutes after a power loss.
- 2) **Size:** most suppliers of UPSs express the size of their models in terms of Watts. You must select a UPS that has a wattage rating equal to or higher than the demand, being careful not to oversize the UPS as most units do not run efficiently at less than full load.
- 3) **Input / Output:** what input/output is required ie 220 Volts 50 Hertz in/120 Volts 60 Hertz out. Most equipment will operate on either 50 or 60 Hertz but this should be verified.
- 4) **Cut-over time:** when the power fails most UPSs have a short break in the service before the power is restored. You must confirm that this break can be tolerated by your equipment.
- 5) **UPS Type:** there are essentially two types of UPSs, those in which the inverter is operating all of the time and those that switch the inverter on when the power fails or when the frequency drifts out of specification.
- 6) **Local Maintenance:** the unit should be locally maintained if possible.

MST is available for consultation should there be any concerns regarding the suitability of the UPS you plan to acquire.

### Surge protectors / Line stabilizers:

For posts with frequent voltage surges, spikes, electrical noise, blackouts, etc..., power conditioning devices such as surge protectors or line stabilizers are highly recommended. These units will protect not only equipment from becoming damaged but also data files from being corrupted. Please note that **not** all power bars or power conditioning devices provide adequate protection. The unit should provide protection