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## **Tripp Lite Power Audit Walk-through**

**Wiring Closets** – In order to correctly power, protect, and keep your schools switches and servers running correctly, it's necessary to determine the UPS requirements, type of electrical power available, and any space limitations in each wiring closet, in each of your schools. Each of these questions needs to be answered for EACH closet you have.

1. Does this closet have any existing power protection (UPS's that are running), without alarms or red lights. If so, List the models below:

| <b>Qty</b> | <b>Model of UPS</b> | <b>What approximate load is this UPS running at?</b> |
|------------|---------------------|--|
|            |                     |  |
|            |                     |  |
|            |                     |  |
|            |                     |  |

2. Is there any equipment that isn't currently covered by your UPS power protection? If so, List each piece of equipment as accurately and completely as you can below:

| <b>Qty</b> | <b>Manufacturer</b> | <b>Exact Model #</b> | <b>Power Supply watts (if known)</b> |
|------------|---------------------|----------------------|--------------------------------------|
|            |                     |                      |                                      |
|            |                     |                      |                                      |
|            |                     |                      |                                      |
|            |                     |                      |                                      |
|            |                     |                      |                                      |
|            |                     |                      |                                      |

(If you can not identify the model of equipment, question 6 will help us determine that products electrical requirements)



4. What type and quantity of electrical outlets do you currently have in this wiring closet? Check with your electrician if you are not sure, or identify the various types of wall receptacles by the outlet diagram shown below:

## Outlet and Plug Types

**IEC CONNECTORS**



IEC-320-C13    IEC-320-C14    IEC-320-C19    IEC-320-C20

**NEMA OUTLETS**



5-15R    5-20R    L5-20R    L5-30R

6-15R    6-20R    L6-20R    L6-30R    L14-30R

**NEMA PLUGS**



5-15P    5-20P    L5-20P    L5-30P    L6-20P

L6-30P    L14-30P



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6. If you were not sure of the model or type of equipment in question 4, can you identify the type of NEMA Plug from the picture above? If so, add that equipment to the list below:

| Best Description of Equipment I can provide | Type of Electrical Plug it has (from picture above) | Qty of this product in this wiring closet |
|---|---|---|
|   |   |   |
|   |   |   |

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

7. How much runtime do you need for this particular wiring closet? Remember, more runtime requires more batteries. More Batteries increase cost of power protection, take space on a rack, and are really heavy to move.

- a. 15 minutes to 30 minutes
- b. 1 – 2 hours
- c. 3 hours +

8. How is your power equipment mounted in this wiring closet?

- a. 4 Post Racks
- b. 2 Post Racks
- c. Mounted in a rack on the wall
- d. On the floor, shelves, and filing cabinets

9. If you have 4 or 2 Post Racks, please estimate how many U of rack space do you have available for UPS protection, or would you need to purchase another rack? If you have a wall mounted rack, please provide details of how many U it will hold, and the maximum measurements of the equipment this particular rack can hold. Please fill in the blank.

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10. What are your plans for future growth of the amount and type of equipment in this room?

- a. Little to no growth in next 4 years
- b. 20 to 40% growth per year
- c. 40 to 60% growth per year
- d. 60 to 100% growth per year

11. Are you already using VOIP, or do you plan to in the next 5 years?

Yes

No

### **Wiring Closet Questions – General Questions**

**Answer these one time, and you are done for all your wiring closets**

1. Do you currently, or would you like to be alerted anytime there is a power situation that affects this closet, such as a power outage, a UPS fails a self test, or a UPS battery starts to fail?

Yes

No

2. How is the cooling in this closet? Would you like to be kept informed if the batteries on your UPS get to hot, or if the air conditioner fails, even though power may still be on?

Yes

No

3. Would you like to be able to reboot equipment, WITHOUT having to be on site, or do so from any remote location?

Yes

No

4. Two years is the standard Single Phase Electrical Tripp Lite UPS and Battery Warranty. Do you need longer than that?

a.     No            Yes - 3 years            Yes – 5 Years

5. You know your schools IT budget better than anyone else. What is more important to you for your schools current power needs?

a. I need the purest electrical power a UPS can generate.

b. I'll sacrifice a small amount of power purity, in order to purchase more equipment for my existing and future power needs.