# UPS for Motors and Network Switches in Hall D 

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## Motors and Switches

- Only one motor driver chassis in Hall B
- XPS-Q8, rated at 1320W, can run on 12VAC
- Needed to control position of TAC during power loss
- Based on David's Excel sheet, we need 7 network switches (+ solenoid switch) on UPS.
- Each network switch is rated at 370W
- Most of the power consumption is due PoE+ compliant equipment.
- Determine current ratings at 120VAC at different locations where UPS power is required.
- Based on maximum current ratings of the expected equipment.

Location Leqend:
T- Tagger Bldg.
A - Alcove
GS - Gas Shed
U. Upstream
D. Downstream
$N$ - North
S. South

UN - Upstream North
US. Upstream South DN - Downstream North DS - Downstream South
中. Point-of-View (Front of Rack)

Function Legend:

Readout
$\square$ Trigger
$\square$ Power
$\square$ Controls
$\longrightarrow$ Cable Routing

Hardware Leqend:
TAGH - Tagger Hodoscope
TAGM - Tagger Microscope
PS - Pair Spectrometer
PSC - Pair Spectrometer Counters
ST. Start Counter
CDC. Central Drift Chamber
FDC - Forward Drift Chamber
TOF - Time-of-Flight
BCAL - Barrel Calorimeter
FCAL - Forward Calorimeter
TRIG - Trigger
TARG - Target
GAS - Gas Systems for Drift Chambers


COOL - CDC, FDC \& BCAL Electronics Cooling Systems
SPS - Solenoid Power Supply \& Controls
SW - Sweep Magnet Power Supply \& Controls
COLLI-Collimator Controls


Upper Level (2)


LED - BCAL \& FCAL IED Pulsers
$B P$. Beam Profiler
MO - Master Oscillator
$\longrightarrow$ Switch location


