

<u>ELECTRICAL</u>	<u>ITEM</u>	<u>Comments</u>
Substation Feeds	Is building fed from two separate electrical substations? Or Loop feed?	
	What is the local substation dependability history.	
	Where are the substations located?	
	Who owns the substation in the building?	
	What is the incoming voltage?	
Incoming Electrical lines	How many power feed routes into the building?	
	What is the age of the cables and have they been injection tested?	
	What size are the cables?	
Power Distribution	Who owns the cables?	
	What is the voltage to the floors? Frequency?	
	Where are the floors fed from? Critical routing paths?	
	Main switchboard fused? Breakers? Ground Fault Protected?	
	Is power fed to the floors in a secured way?	
	Are bus ducts used? Copper or Aluminum	
	What is the building offering for watts/sq.ft on each floor?	
	What is the age of the existing UPS/Batteries/Generator if available.	
	Electrical distribution system components been routinely maintained.	
	What type fire suppression/detection used in main elec.rm?	
	Are main electrical boards compartmentalized?	
	What amperage/voltage is the Switchgear rated.	
	Is the switchgear double ended with a tie breaker.	
	Is switchgear equipped with undervoltage,overvoltage,and phase protection.	
	What type of power quality monitoring available	
	What is the composition of the interior buss,copper or aluminum	
	What is the type and ratings of the transformers	
	Does the building have multiple busduct risers.	
	Does the building have an existing UPS system supporting critical space.	
	Is the UPS single or multi-module?	
What is the age of the existing UPS/Batteries/Generator.		
What is the size of the UPS.		
Grounding	Building grounding? Floor grounding?	
	Do a mega test to check grounding?	
	Is there an underfloor HF grounding grid?	
Lightning Protection	Is the building equipped with an approved Lightning protection system	
Generator	What engine type runs the generator?	
	Is it multi fuel?	
	What does it feed? UPS etc	
	What size is the generator?	
	What is the maximum current load on the generator	
	How often is it run/maintained?	
	How much fuel on site? How long can it run?	
	Can it be refueled while in operation?	
	Is there space for an additional genset?	
	Is the generator equipped with automatic Transfer switch	
What is the HOUR meter reading?		
Security	Is electrical room secured from outside personnel?	
	Are electrical/telecom pull boxes locked/secured?	
	What type of monitoring do you have in the building?	
<u>MECHANICAL</u>		
Cooling Plant	What type of equipment?	
	Chiller? Is it 24 hour?	
	Is condenser water/chilled water on all floors?	
	Is there a maintenance log?	
	Is there a building automation system?	
Independent Plant	Are the cooling towers on the roof? In an outside area?	
	is there space for additional cooling towers?	
	Are there chiller units? Where?	
Security	Is mechanical room secured from outside personnel?	

	If drycoolers/tower, what type of roof access is available	
	and what type of security exists?	
Fire Systems		
Suppression Systems	What type of fire suppression systems are installed? Are these legal?	
	Can floor areas be compartmentalized (separated)?	
	What type of drainage if a sprinkler is set off?	
	Are there fire extinguishers located correctly on each floor? Type?	
	Are there manual alarm stations on each floor?	
	Is there a safe means of fire egress for personnel?	
	Are in-duct heat detectors used ?	
	Is the building equipped with a separate fire water service	
	What type piping is used	
Security Systems	Is there card access on each floor?	
	Is there a main building security office?	
	Is there biometric security installed?	
	Is there CCTV and recording?	
	For how many days are recordings retained?	
Lighting Systems	What percentage of lights are connected to the generator?	
	Are lights activated by PIRs?	
Miscellaneous		
Flooring Systems	What is the design load in kg./sq. m	
	Will this be able to handle server rack static loads?	
	Is raised floor earthquake resistance?	
	Is the floor sheet anti static	
Telecom/data Cabling	What is the critical routing of the cables to the building	
	Are there 2 independent routes into the building	
	Is cable entry secured from outside access?	
	How many spare conduits are available?	
	Are the conduit pits properly drained	
	Does the building have diverse telecom/data risers	
Workstations	Is there enough cooling/airflow to support the PC heat loads?	
	Is there enough power for the PCs?	
	Can the PC be Salt & Peppered?	
	What is the watts per sq. m building design.	
Other	Single point of failure checks on electrical, mechanical, fibre, copper	
	Check for ponding after rains, check driveways	
	Check for stains on slab/ceiling on top floor	
	Check sprinkler fittings and valves?	
	Check toilet & drains, waste pipes, water lines, water colour?	
	Check CWS/R and CHWS/R lines, condensate lines, refig?	
	Check ductwork insulation, type, bends, fresh air?	
	Check A/C hunching noise	