

| <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? | |
| | <u>Fire Systems</u> | |
| 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? | |
| | <u>Miscellaneous</u> | |
| 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 | |