Laboratory Power Outagesuide

The purpose of this procedure is to prepare faculty, staff, researchers and students for a power failure. Electrical powerto the campus can fail, either as an isolated incident cting a single locatione.g.: tripped circuit breakers or blown fuses) or as part of a larger evegtonal power outages or natural disasters affecting the entire campus when power failures cur, health and safety issues need to be

with hazardous materials and equipment hould include the documented procedure (st) elow to be used by those

Severity of outage

3/4 What do I do if there is a localized power outage?

working inthe laboratory.

Power is lost at one or more wall receptacle. Loratory and building lighting and ventilation are not impacted.

x Leaving the building not required unless loss of devic pvM t p pl zg 1 1¯Ñ2"1¯çœ y1Y€1'"©&g Q e î»Ü

3/4 What do I do if local/entilation (fume hood and other extraction system) is lost?

d receptacles are not

- x Stop all work in fume hoods and biosafety cabinests ut down experiments unplug all heating devices; eal all open containers and move them to proper storage lower the sash
- x Depending on the extent of theoutage, be prepared to leave the buildingnecessary
- x Report the issue to Falicies Services

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Preparing for a planned power outage

You have been advised of a scheduled power outage in your lab or building. Prepare by taking the following steps:

- x Plan to shorten or pause active experiments which can release harmful vapors.
- x Do not start new experiments that cannot be safely paused during the power outage.
- x Ensure all reagent and waste containers have been capped and moved to the appropriate storage cabinet.
- x Close all fume hood sashes and affix a notice indicating they are not to be used until after the power outage.
- x Ensure that all equipment that cannot go long periods without power is connected to an appropriate generator or battery backed power sour Ensure circuits are not overloaded to prevent tripping during switch over.
- x All equipment that cannot be shut down should be on a sufficiently sized UPS and generator power.
- x On the day before the scheduled outage, power down all equipment to avoid any issues that may be

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Unplanned power outage

If there is a sudden loss of power in you laboratory, remain calm and if possible take the following actions to make the laboratory safe as you leave the building

- x Where heating mantles and hotplates are in use, turn the controller to the 'OFF' setting and unplug the heating device.
- x Leave cooling water circulating to chill reactions and minimize vapour release.
- x Capall reagent containers and move to proper storage.
- x Close all gas cylinders at the main valve. Exception: if a low flow of inert gas is required to prevent moisture or oxygen from coming in contact with reaction mixtures or reagents, maintain the low flow of inert gas.
- x Close all fume hood sashes.
- x If you are working in a BSC, stop work with biohazardous material immediately. Cap and remove all material and decontaminate all work surfaces and the surfaces of vessels containing biohazardous material. Collect waste in an

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After any power outage

• Do not enter the building until given confirmation by etdepartmental