

# Electrical Safety in the Lab Examples

August 20, 2025

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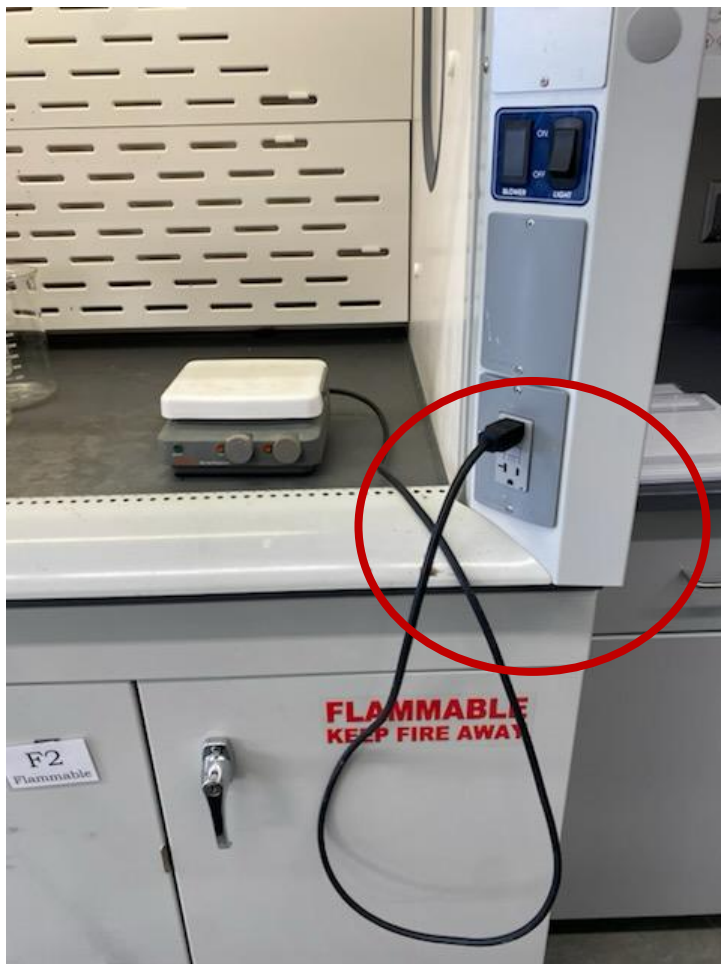
# Fire Marshall Inspection

- Inspection conducted annually
- Checklist of items Fire Marshall looks for:
  - All refrigerators, freezers, microwaves, coffee pots need to be plugged directly into a room outlet.
  - No power strips in fume hoods.
  - Power strips cannot be plugged into other power strips. They must be plugged directly into a room outlet.
  - Power strips need to have overcurrent protection. Should have a reset button.
  - No corded multiplug adapters are to be used.
  - No extension cords are to be used as permanent wiring, except for approved appliance cords.
  - All electrical cords need to go under the foil of the fume hood so it would not interfere with the sash closing all the way.
  - Fire strobes must be free from obstruction.
  - Fire extinguishers must be free from obstruction.
  - Electrical panels must be free from obstruction.
  - Means of egress should not be obstructed.
  - All gas cylinders need to be secured.

# Fire Marshal Inspection – 2022/2023 Findings

**605.6:** Open junction boxes and open wiring splices shall be prohibited. Approved covers shall be provided for all switch and outlet boxes

*The electrical cords which provide power to support equipment located in Fume Hoods are not routed properly under the air foil*

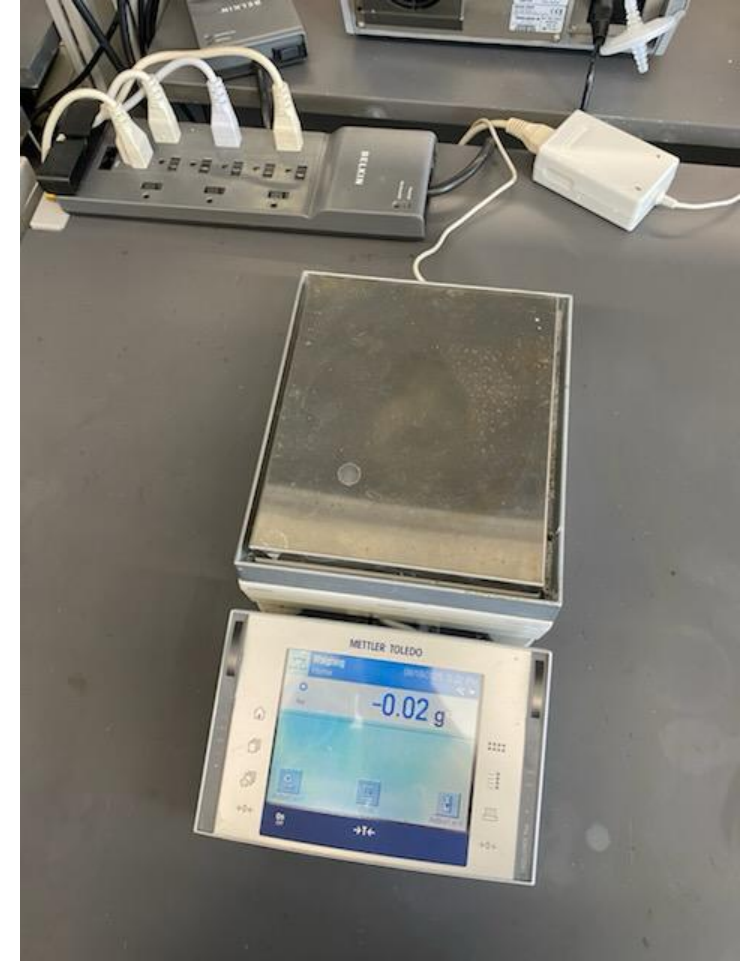
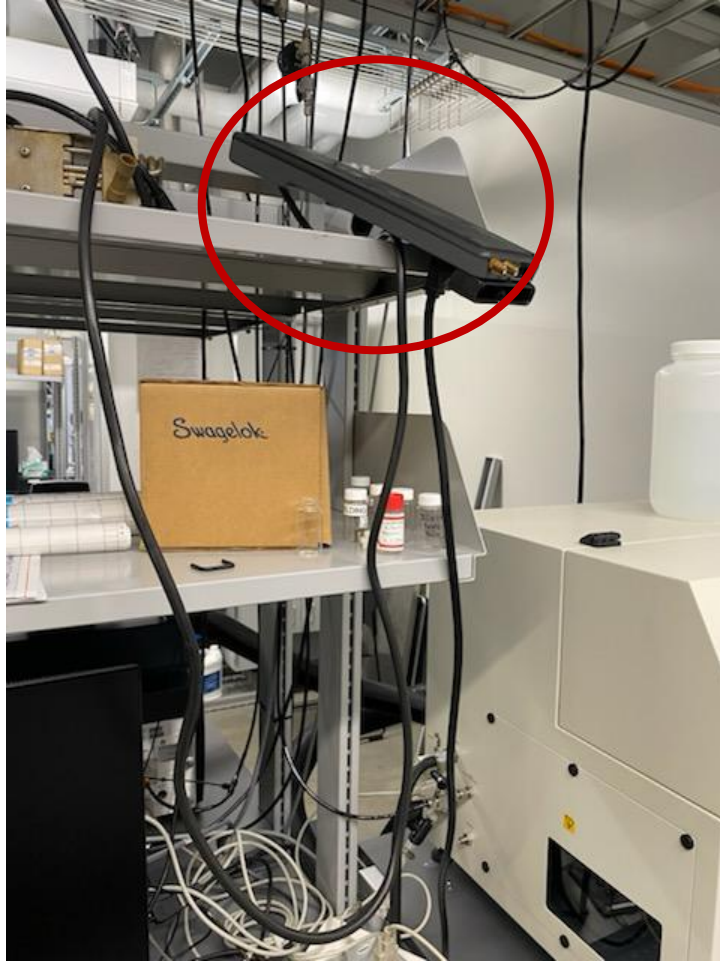


# Fire Marshal Inspection – 2022/2023 Findings

**605.4:** Relocatable power taps shall be of the polarized or grounded type, equipped with overcurrent protection, and shall be listed.

Relocatable power taps shall be directly connected to a permanently installed receptacle. Relocatable power taps shall not extend through walls, ceilings, floors, under doors or floor coverings, or be subject to environmental or physical damage.

*Electrical power strips are not supported and are dangling by electrical cords*





# Fire Marshal Inspection – 2022/2023 Findings

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Relocatable power taps shall not extend through walls, ceilings, floors, under doors or floor coverings, or be subject to environmental or physical damage.

*An electrical power strip is located within a ventilated chamber*

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