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Consult with the UM AHJ or a 3<sup>rd</sup> party permitting agency for determination.

4. Installation of locking or security hardware on egress doors, or changing the types of locking devices are subject to permit requirements.

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1. Movable cases, racks, counters and partitions, not over 5 feet 9 inches, are exempt.

2. Painting, papering, tiling, carpeting, countertops, and similar finish work are exempt.

3. Temporary motion picture, m 0 e x e , E M O - 8 1 ( 2 ) 3 0 2 5 1 2 ( T . 9 3 6 4 ) C e g ( 1 ) ( i ) 2 2 0 0 2 ( p ) 3 3 8 ( m ) 2 1 0 1 9 1 0

2. Repair or replacement of motors rated 50 hp or less, transformers rated 45 kVA or less, or fixed approved appliances of the same type and rating in the same location.

Repair or 'like for like' replacement of motors, transformers, or fixed approved appliances are exempt from requiring a permit, provided they are of the same type and rating and installed in the same location as the replaced motor, transformer, or appliance. The permit exemption for repair or replacement of motors and transformers is limited to motors rated 50 hp or less and transformers rated 45 kVA or less.

Note: To be exempt, the work must not include, or cause to be necessary, any additions or modifications to the Premises Wiring System, (as defined in the *National Electrical Code*).

3. Temporary decorative lighting approved and identified for cord- and plug-connection.

Since the lighting is temporary and is listed for cord and plug connection; it is essentially utilization equipment connected to suitable permanently installed receptacles. This exempt work does not include any additions or modifications to the Premises Wiring System, (as defined in the *National Electrical Code*).

4. Repair or replacement in kind of any switch, other than a service disconnect, receptacle, contactor, control device or other utilization equipment rated 60 amperes or less.

The permit exemption for repair or 'like for like' replacement of any switch, receptacle, contactor, control device, or other utilization equipment is limited to those devices/equipment rated 60 amperes or less. Repair or replacement of a switch used as a service disconnect shall require a permit. Note: to be exempt, the work must not include, or cause to be necessary, any additions or modifications to the Premises Wiring System, (as defined in the *National Electrical Code*).

5. Replacement in kind of any circuit breaker other than a service disconnect, rated at 125 amperes or less, or any fuse.

The permit exemption for 'like for like' replacement of any circuit breaker is limited to circuit breakers rated 125 amperes or less. Replacement of a circuit breaker used as a service disconnect shall require a permit. Fuses of any size may be replaced 'like for like' with fuses of the same type and rating.

Note: To be exempt, the work must not include, or cause to be necessary, any additions or modifications to the Premises Wiring System, (as defined in the *National Electrical Code*).

6. Repair or replacement of electrodes or transformers of the same size and capacity for signs or gastube systems.

Repair or replacement of electrodes or transformers must be of the same size and capacity as the original parts and must maintain any listing required by the *National Electrical Code*.

7. Installation, repair or replacement of electrical systems and components within machinery or equipment which is not defined by the Code as building service equipment.

Work within listed machinery or equipment, (utilization equipment), that involves "like for like" installation, repair, or replacement of electrical systems and/or components intended for use in the

Alteration of any valves, piping, chimney, or vent will require a permit.

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1. Repair or replacement of any component part or assembly within equipment or appliances which does not

equipment to approved permanently installed receptacles.

Equipment or appliance installations located greater than 10 feet away from the local disconnecting means

1. Temporary wiring, specifically used for testing and service of installed laboratory equipment.
2. Installing listed cord connected equipment, appliances, or apparatuses.

1. All lab equipment shall be UL Listed, or, have an affixed label from an NRTL approved by the UM AHJ, or, have a stamped engineered design approved by the UM AHJ.
2. This listing requirement shall also apply to all cord connected equipment or appliances in the laboratory space.
3. Autoclaves: ensure EH&S is aware of all autoclave installations in your laboratory, as reoccurring pressure vessel inspections may be required.

1. Chemicals, gases, and other hazardous materials used or stored in laboratory spaces are regulated by the International Building Code, International Fire Code, NFPA 45 and other standards in addition to standing EH&S policies.
2. Toxic or Highly Toxic gases: Consult with EH&S before introducing these gases into a laboratory, regardless of the quantity. EH&S can also assist with identifying the presence of these gases in your laboratory.
3. All other chemicals, gases, liquids, and hazardous materials: Consult with EH&S or the building inspector prior to introducing new, or increasing the quantity of, chemicals, gases, liquids, or other hazardous materials in your laboratory.

1. As mentioned above, temporary water supplies can be connected to lab supplied hose bibbs.
2. Caution should be taken to ensure the water supply hose extension is not allowed to extend into a plumbing receptor (sink, floor drain, tub, etc.) where siphoning of receptor liquids can occur.
3. Proper air gap clearances between the temporary water supply hose and the receptor shall be maintained per the International Plumbing Code. Consult with your building inspector or the UM AHJ as necessary.

1. Electric disconnects supplying lab equipment or appliances shall be utilized to supply only a single piece of equipment, appliance, or apparatus. Multiple load connections to a single disconnect are prohibited. See 2017 NFPA 70 section 660.24, Independent Control, for reference.

1. Coordinate outages for electrical, water, gas, and other supply services with qualified Campus Facilities personnel.
2. Do not operate any valves, dampers, circuit breakers, or remove panel covers or guards. Campus Facilities personnel will perform these functions.

1. Experimental

