Safety Guidelines for 3D Print ing

EOSMS201C

EffectiveDate: 03/28/2023

SOPEHS_01

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adheres to these guidelines and other envir

 Coordinate with Maintenance and Operation Environmental Health and Safety EHS Depainstallation of new equipment.

and policies.

- Ensure that the affecteddepartment's persor safety training on the safeuse of 3D printers
- Ensure prompt reporting and appropriate inv
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B. Faculty, Staff, and Students

- Understand and comply with the requirements of these guidelines.
- Complete all required saf.1 (af.1 -0 0PtaET 828re f* q 523.2a76 0 Td (e)af.1 -r(2etd (t)8. 7 (s)-3.5 ((e)10.2)

3. Chemical Hazards

Chemical Hazards

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In addition to UFP and VOCs exposure, 3D printing can also emits numerous coumputs such as polycyclic aromatic hydrocarbons (PAHs), phthalates, ozonmetal, or metalloid dusts





•	The printer nozzle should be cleaned before each use to remove filament residues left on nozzle after printing to minimize emission from thermal degradation of the residue. Any filament, glue or tape residue left on the base plate should also be cleane the defeach use. For the manufacturer's pre-print and post-print inspections and maintenance instructions, including on the selection						

A. Personal Protective Equipment

To protect againist the various chemical and physical hazards, use of appropriate certain PEmay be required depending on the task Please review the following chart for PPE may be required.

Body and hand protection

• Wear the appropriate chemical resistant gloves, laboratory coat or apron when working with hazardous chemicals such as flammable solvents, corrosive

10.	Incident Reporting All incidents, including near misses, involving the 3D prining operation should be promptly reported in accordance with the University's Incident Reporting and Investigation procedures