



INTRODUCTION

This document outlines Environmental Health & Safety (EH&S) requirements and process for decommissioning chemical fume hoods.

REQUIREMENTS

- All projects including the removal of a chemical fume hood must be submitted to EH&S Building Codes Enforcement (352-392-1591) for plan review and permitting. This review will ensure that all relevant building and fire codes are addressed during the project.
- Work must not start until EH&S Laboratory Safety Program has received the decontamination form. EH&S will review the form for potential chemical or radiological hazards present in the fume hood.
- EH&S Laboratory Safety Program requires the following Personnel Protective Equipment (PPE) as a minimum for any personnel involved in decommissioning:
 - Tyvek suits, safety goggles, and nitrile gloves. (Cut-resistant gloves may be needed when cutting or handling ductwork).
 - Respiratory protection is required if dust generating activities will occur, such as cutting of ductwork. Contact EH&S's Industrial Hygiene Group for more information on respiratory protection requirements.
- Chemical fume hoods and ductwork recorded as asbestos containing materials **MUST** be handled by an asbestos abatement company with both asbestos contractor (removal) license and asbestos business license from the State of Florida Department of Business and Profession Regulation.
- **ALL** wastewater generated from the removal process must be directed into the sanitary sewer. **NO** wastewater can enter the Storm Sewer, immediately report all releases to EH&S.

PROCESS

1. Submit project plans to EH&S Building Codes Enforcement for review and approval.
2. Submit Decontamination form to EH&S Laboratory Safety Program. Once approved by EH&S, you will receive a copy. Maintain a copy of the signed form in your records.
3. Wash down the chemical fume hood and exhaust stack. Use appropriate PPE
 - a. Use free flowing water only, **NO** pressure washer (chemical reactions may occur).
 - i. Route all wastewater either directly into the sanitary drain or collect for drain disposal.
 - ii. Use a detergent solution, such as trisodium phosphate (TSP).
 - b. Wash from the top of the exhaust system towards the chemical fume hood.
 - i. Remove the fan from the housing and rinse outside the building in a collection tub.
 - ii. Rinse from the stack top towards the fan housing.

- iii. Rinse from the fan housing to the chemical fume hood outlet.
 - iv. Rinse the inside of the chemical fume hood, includes the area behind the baffles.
4. Ductwork demolition.
 - a. **DO NOT** break ducts until they have been washed, since hazardous materials may buildup in the joint.
 - b. Spray all joints as separated to reduce the generation of harmful dust.
 5. Removal of the chemical fume hood.
 - a. Disconnect all electrical and plumbing as approved by EH&S Building Codes Enforcement.
 - b. Cap exhaust ductwork as approved by EH&S Building Codes Enforcement.

SPECIAL CONSIDERATION FOR RADIATION FUME HOOD

For fume hoods that were used with radioactive materials have additional safety consideration.

- Environmental Health and Safety's Radiation Safety (352-392-7359) must survey any chemical fume hood and ductwork where radioactive materials were used before they can be removed.
- This is a multi-step process since the ductwork cannot be cleared for removal by Radiation Safety until the ductwork has been exposed when the fume hood has been removed:
 - If a fume hood tests positive for radiological contamination, it will need to be decontaminated by a staff member who has completed UF's Radiation Safety Short Course (RSSC) and is approved by the Radiation Safety Program to work with Radiological Materials.
 - Once decontamination has been completed, Radiation Safety will need to return to re-survey the fume hood. This process will be repeated until the fume hood can be cleared by Radiation Safety.
 - Once the fume hood has been removed, fume hood exhaust ductwork must be surveyed by Radiation Safety after the fume hood has been removed.
 - Exhaust ductwork that tests positive for radiological contamination **MUST** be disposed of through EH&S's Chemical and Radiological Waste Disposal (352-392-8400). Arrangement **MUST** be made with this group before the ductwork is removed.
 - Exhaust ductwork that tests negative for radiological contamination can be treated as normal - washdown before removal and disposed as appropriate.