University of Tennessee Safety Procedure LS-003

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Purpose

To detail the procedure for properly decommissioning a lab that may result from

- Change in ownership
- Change in location
- Loss of faculty member through retirement, loss of funding or death
- Lab renovation
- Lab expansion
- Other

Scope and Applicability

This shall apply to all research and teaching laboratories and academic shops on the Knoxville campus of the University of Tennessee.

This shall apply to all students, staff and faculty on the Knoxville campus of the University of Tennessee.

Abbreviations and Definitions

Abbreviations

BSL – Biological Safety Level

- **DEA** Drug Enforcement Administration
- **DOT** Department of Transportation (regulates transport of hazardous materials on our roadways)
- **DSO:** Departmental Safety Officer
- EHS Environmental Health & Safety Department
- IACUC Institutional Animal Care and Use Committee
- **PI** Principal Investigator

STAR Team – Special Team to Assist Research (a division of Facilities Services)

Definitions

Lab Decommissioning: Lab is closing due to retirement, loss of funding, death, etc.

Lab Securing: Lab space and contents are changing ownership due to retirement, loss of funding, death, etc.

Lab Moving: Lab is being decommissioned due to relocating to another room, building, UT campus or other University or everything being removed for renovation

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Lab Expansion: Lab is acquiring new space and keeping the original space

Facility Supervisor: The Director or Head of a Center, Department or Joint Institute

Hazardous Waste: Waste that is dangerous or potentially harmful to our health or the environment. Hazardous wastes can be liquids, solids, gases, or sludges. They can be discarded commercial products, like cleaning fluids or pesticides, or the by-products of manufacturing processes. This does not include biohazardous wastes or radioactive wastes.

Universal Waste: a category of waste materials designated as "hazardous waste", but containing materials that are very common. It is defined in 40 C.F.R. 273.9, by the United States Environmental Protection Agency but states may also have corollary regulations regarding these materials. This includes batteries, pesticides, mercury-containing equipment and bulbs (lamps).

Roles and Responsibilities

Department Head or Facility Supervisor or Departmental Safety Officer

- Shall assign a Responsible Person for each lab that is to be decommissioned, at least one month prior to lab decommissioning.
- Shall ensure all applicable sections (appendices A, B, and C) are completed and sign each form upon completion
- Shall keep the completed and signed original Lab Decommissioning Checklist for Lab Closeout or Lab Move on file in the department personnel files for a minimum of 10 years and shall send an electronic copy of the forms to Facilities Manager (if applicable), the Associate Dean's office, EHS and the Office of Research

Responsible Person

- Shall be a person with capable skill and knowledge to carry out the required tasks as determined by the Department Head/Facility Supervisor, in most cases the occupant or PI
- Shall ensure that all required elements of the Decommissioning Procedure are fulfilled and sign the Lab Decommissioning Checklist upon completion
- Shall ensure that all required signatures are obtained

EHS

- Shall coordinate with a licensed contractor to remove and properly dispose of Hazardous Waste in accordance with state and federal regulations EHS needs a four week lead time to schedule contractor
- Shall coordinate with a licensed contractor to properly pack and move all hazardous chemicals in accordance with state and federal regulations in the event of a lab move EHS needs a four week lead time to schedule contractor
- Shall provide Lab Door Placards (upon completion of Lab Door Placard form by lab personnel)
- Shall keep an electronic copy of the completed and signed Lab Decommissioning Form for a minimum of 10 years

Biosafety Office

• Shall coordinate with the PI or designate to ensure that biological hazards are either destroyed, transferred (either internal or external to the University), or safely stored in accordance with federal, state, local, and/or institutional standards.

- Shall perform an exit evaluation of the laboratory to verify that all affected working surfaces and equipment has been cleaned and surface disinfected as prescribed by the Biosafety Office.
- Shall coordinate decontamination of equipment prior to moving if indicated by risk assessment.
- Shall provide laboratory signage, labels, and other postings as appropriate.
- Shall ensure that Institutional Biosafety Committee approvals are updated or refiled as applicable

Rad Safety Office

- Shall remove or move any radioactive material
- Survey potentially contaminated equipment
- Shall perform exit survey

Facilities Services

- Shall manage utilities as needed
- Shall move non-sensitive equipment and non-fixed furniture

IACUC

• An IACUC inspection may be required when a lab which uses vertebrate animals is expanding or moving to a new space

Outside Vendors

- Shall pack, ship and dispose of hazardous waste in compliance with state and federal regulations.
- Shall pack, ship and unpack of hazardous materials to a new location in the event of a lab move, in compliance with state and federal regulations
- Shall remove and/or transport compressed gas cylinders in compliance with state and federal regulations
- Shall pack, move and set up sensitive equipment in the event of a lab move

Office of Research

- Review the lab closeout/move for any impact an existing grant or contract
- Shall keep an electronic copy of the completed and signed Lab Decommissioning Form for a minimum of 10 years

Procedures

General Procedures

- **Notify** EHS, Biosafety (if applicable), Rad Safety (if applicable) and Facilities Services at least four weeks prior to the lab closeout or move.
- **Use appropriate safety controls** and work practices for any cleanout activities. This includes wearing appropriate personal protective equipment (PPE) needed for the materials being handled (e.g. safety glasses, lab coat, gloves, closed-toed shoes, etc.).

Lab Closeouts

- **Complete** the Laboratory Decommissioning Checklist for Closeout (**Appendix A**).
- **Secure** all required signatures.
- **Post** a copy of the signature page in the sign holder on or next to the lab door.
- **File** the signed original in the corresponding academic department.

Lab Moves

- **Complete** the Laboratory Decommissioning Checklist for Lab Moves (**Appendix B**).
- **Secure** all required signatures.
- **Post** a copy of the signature page in the sign holder on or next to the lab door.
- **File** in the corresponding academic department.
- Lab moves will also complete the move-in process below

Lab Commissioning (Lab Move-In)

- **Complete** the Laboratory Commissioning Checklist for Lab Move-Ins (**Appendix C**).
- **Secure** all required signatures.
- File in the corresponding academic department.
- EHS will post your new door placard.

Recordkeeping

- A copy of the Laboratory Decommissioning Checklist signature page (Appendix A or Appendix B) shall be posted in the sign holder on or next to the laboratory door to be removed by new occupant and the signed original shall be filed in the corresponding academic department files for 10 years.
- The Laboratory Commissioning and Decommissioning Checklists shall be filed in the corresponding academic department files for 10 years.
- Copies of all documents should be kept by the Facilities Manager (if applicable), the Associate Dean's office, EHS and the Office of Research for a minimum of 10 years.

Training and Information Requirements

None

References

None

Appendices

Appendix A: Laboratory Decommissioning Checklist for Lab Closeout

Appendix B: Laboratory Decommissioning Checklist for Lab Move

Appendix C: Laboratory Commissioning Checklist

Appendix D: Lab Decommissioning Concept Map

Disclaimer

The information provided in these guidelines is designed for educational use only and is not a substitute for specific training or experience.

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Appendix A: Decommissioning Checklist for Lab Closing

This form is for lab closing only and is not for lab moves

General Information

Department:			
Lab Location Building:			s):
Responsible Person:		Phone #:	
Department Head,			
Facility Supervisor,			
or Department Safety O	fficer	Phone =	#:
Estimated Date for Clos	ing Lab:		
Reason for Closeout:	□Leaving UT	Retirement	□ Other
incuson for croscout.			

Four Sections to Review



Biosafety (Lab Closing)

What biosafety level applies?

	None	(skip	to	next	section)
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□ BSL-2

BSL-3

BSL-1

X

Responsible Person Responsibilities	Completed	N/A	Initials
Contact the Biosafety Office to evaluate biohazards to be moved or discarded.			
Biohazards have been removed from the lab:			
 Biohazards sent to offsite locations must be packaged and shipped in accordance with DOT/IATA hazardous materials shipping regulations; contact the Biosafety Office for assistance. Biohazards transferred to other UT lab locations must be reviewed and approved by the Biosafety Office. Unwanted biohazard must be segregated and treated as biohazardous waste (see below) 			
biohazardous waste (see below).			
All biohazardous waste must be inactivated by an approved method (e.g. autoclaving) or packaged for removal by regulated medical waste contractor; contact Biosafety Office for guidance.			
Permanently close and surface disinfect sharps containers and submit to			
EHS during hazardous waste collection. Contact EHS or the Biosafety Office for locations and times.			
Surface clean and disinfect all lab benches used for procedures with			
biohazards.			
Surface clean and disinfect all biosafety cabinets (BSCs), clean benches, centrifuges, incubators, or other equipment used to process and store biohazards. Full gaseous decontamination of internal components of such equipment is generally not required, but may be necessary depending on risk assessment. Equipment for surplus must labeled with appropriate surplus/decontamination forms (see <u>https://warehousing.utk.edu/</u>).			
Remove or deface all biohazard labels/markings on decontaminated			
equipment.			
Notify the Biosafety Office of any equipment or areas that cannot be fully decontaminated.			

Biosafety Office Responsibilities	Completed	N/A	Initials
Perform exit survey.			
Ensure that biohazards are properly packaged and declared for commercial shipping as applicable (in accordance with DOT/IATA regulations). Verify approvals if biohazards transferred to other UT labs as applicable.			
Verify that all biohazardous waste has been treated/removed from lab and that sharps containers have been submitted to EHS or the Biosafety Office.			
Ensure that equipment has been cleaned and disinfected. Where equipment cannot be satisfactorily disinfected, the Biosafety Office will arrange for gaseous decontamination of equipment.			
Verify that all biohazard labels have been removed/defaced and remove the door placard(s) as necessary.			

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Radiation Safety (Lab Closing)

Were radioactive materials used in the lab?

\Box No (skip to next section) \Box Yes (complete the following)



Responsible Person Responsibilities	Completed	N/A	Initials
Prepare radioactive waste for Radiation Safety to pick up. All waste containers should be labeled with radionuclide and activity.			
Contact Rad Safety for an exit decommissioning survey of the lab space.			
Notify the Rad Safety Office if there are items/equipment that may be contaminated with radioactive materials.			

Radiation Safety Office Responsibilities	Completed	N/A	Initials
Remove/move any radioactive materials.			
Survey all equipment that is labeled, or could possibly be contaminated.			
Perform an exit decommissioning survey of the lab space, and remove radiation postings from doors.			

Chemical Safety (Lab Closing)

Responsible Person Responsibilities

Were chemicals used in the lab?

		J
Completed	N/A	Initials

Label all chemical containers with the proper chemical name. Abbreviations, chemical formulas or structures are not acceptable.	
Close all containers securely	
Empty all beakers, flasks, evaporating dishes, oil/water bathes into the proper container and dispose of appropriately (all hazardous materials must be disposed of as hazardous waste).	
Dispose of empty containers in the trash after removing all markings and writing "EMPTY" on the container. Triple rinse empty acid containers before disposal. Empty containers which held acutely toxic chemicals should be disposed of through EHS. Do not dispose of any chemicals in the trash or down the drain, regardless of hazard rating	
Check containers for expiration dates and signs of corrosion crystallization. Peroxide-forming materials should be disposed of if the container has been opened and is more than six months old, or if it has not been opened and is more than one year old. Always dispose of by the expiration date listed by the supplier.	
Dispose of old chemicals and lecture bottles to EHS at one of the waste rooms or appropriate waste collections. If you have a large amount of chemicals to dispose of, contact EHS to coordinate a lab chemical cleanout at least four weeks before needed.	
Contact DEA to dispose of any controlled substances	
Clean and decontaminate all chemical cabinets, refrigerators, freezers and any other chemical storage areas, benchtops and equipment from any spilled chemicals. Remove all bench paper.	
Make sure that shared equipment and locations are included in the cleanout and are decontaminated from any radioactive, biohazardous or chemical contamination.	
Remove regulators, replace cylinder caps and return all compressed gas cylinders to the vendor (Airgas).	
Contact EHS for disposal of any compressed gas cylinders which are non- returnable	
Properly dispose of all sharps waste (Bio, Rad or Chemical)	
Notify EHS of any materials or procedures that could leave hazardous chemical residues (e.g., perchloric acid in a chemical fume hood) or areas that cannot be fully decontaminated (e.g., materials potentially containing asbestos; fume hoods; refrigerators used in the storage of highly toxic chemicals, etc.).	

EHS Responsibilities	Completed	N/A	Initials
Perform Exit Survey.			
Dispose of all chemicals, lecture bottles, and other hazardous materials left remaining in lab.			
Address any chemical residue hazards.			

All Other Safety (Lab Closing) To be completed by all labs



Responsible Person Responsibilities	Completed	N/A	Initials
Bag or box up all trash and refuse (or place in trash cans) and label as trash for disposal by housekeeping.			
Notify Facilities Services to bleed any stored electrical energy from equipment (e.g., capacitors) bound for trash or surplus to the warehouse.			
Ensure all keys unique to closing lab have been turned in by all members of the research group.			

STAR Team Responsibilities	Completed	N/A	Initials
Equipment disconnected from fixed facilities and utility connections in room made safe.			
Bleed stored electrical energy from equipment.			

Department Head, Facility Supervisor, DSO	Completed	N/A	Initials
Ensure the Responsible Person has completed the lab closeout to their satisfaction.			
Approve release of final paycheck pending required signatures.			



Required Signatures (Lab Closing)						
This lab is considered clean and ready for housekeeping, renovations, or occupation by new faculty, only <i>after</i> all signatures are complete and this page is posted on the lab door.						
Responsible Person:						
Print	Signature	Date:				
Department Head, Facility Supervisor, or DS	O:					
Print	Signature	Date:				
EHS Representative:						
Print	Signature	Date:				
Rad Safety Rep. (Rad Labs only):						
Print	Signature	Date:				
Biosafety Rep. (BSL-2 Labs only):						
Print	Signature	Date:				
STAR Team Representative:						
Print	Signature	Date:				
Current (Interim) Emergency Contact						
Name and Department	Daytime Phone #	After Hours phone #				

This record shall be kept in the PI's (or responsible person) permanent personnel file in their respective departmental office for a minimum of 10 years. Electronic copies shall be kept by the Office of Research and Environmental Health & Safety for a minimum of 10 years. A copy of the signature page shall be placed in the sign holder on or next to the laboratory door to be removed by the new occupant

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Appendix B: Decommissioning Checklist for Lab Move

This form is for lab moves only from one UTK location to another UTK location

General Information

Room(s):	
Phone #:	
Phone #:	
	Room(s): Phone #: Phone #:

Four Sections to Review

This checklist is provided to direct you in the requirements for a safe and efficient transfer of your hazardous chemicals, radioactive and biological materials, gas cylinders, and lab equipment to your new location.



Biosafety



Radiation Safety



Chemical Safety



Other

Biosafety (Lab Moving)

What biosafety level applies?

	None	(skip	to	next	section)
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BSL-2 BSL-3

BSL-1



Responsible Person Responsibilities	Completed	N/A	Initials
Contact the Biosafety Office to evaluate biohazards to be moved or discarded.			
Biohazards have been removed from the lab:			
 Biohazards sent to offsite locations must be packaged and shipped in accordance with DOT/IATA hazardous materials shipping regulations; contact the Biosafety Office for assistance. Biohazards transferred to other UT lab locations must be reviewed and approved by the Biosafety Office. 			
 Unwanted biohazard must be segregated and treated as biohazardous waste (see below). 			
All biohazardous waste must be inactivated by an approved method (e.g. autoclaving) or packaged for removal by regulated medical waste contractor; contact Biosafety Office for guidance.			
Permanently close and surface disinfect sharps containers and submit to EHS during hazardous waste collection. Contact EHS or the Biosafety Office for locations and times.			
Surface clean and disinfect all lab benches used for procedures with biohazards.			
Surface clean and disinfect all biosafety cabinets (BSCs), clean benches, centrifuges, incubators, or other equipment used to process and store biohazards. Full gaseous decontamination of internal components of such equipment is generally not required, but may be necessary depending on risk assessment. Equipment for surplus must labeled with appropriate surplus/decontamination forms (see <u>https://warehousing.utk.edu/</u>).			
Remove, deface, or cover all biohazard labels/markings on decontaminated equipment.			
Notify the Biosafety Office of any equipment or areas that cannot be fully decontaminated.			

Biosafety Office Responsibilities	Completed	N/A	Initials
Perform exit survey.			
Ensure that biohazards are properly packaged and declared for commercial shipping as applicable (in accordance with DOT/IATA regulations). Verify approvals if biohazards transferred to other UT labs as applicable.			
Verify that all biohazardous waste has been treated/removed from lab and that sharps containers have been submitted to EHS or the Biosafety Office.			
Ensure that equipment has been cleaned and disinfected. Where equipment cannot be satisfactorily disinfected, the Biosafety Office will arrange for gaseous decontamination of equipment.			
Verify that all biohazard labels have been removed/defaced/covered and remove the door placard(s) as necessary.			

Radiation Safety (Lab Moving)

Were radioactive materials used in the lab?

□ No (skip to next section) □ Yes (complete the following)



Responsible Person Responsibilities	Completed	N/A	Initials
Prepare radioactive waste for Radiation Safety to pick up. All waste			
containers should be labeled with radionuclide and activity.			
Contact Rad Safety for an exit decommissioning survey of the lab space and	_	_	
to coordinate the events involved with moving materials and equipment			
that have been used with radioactive materials.			
Notify the Rad Safety Office if there are items/equipment that may be			
contaminated with radioactive materials.			
Contact Radiation Safety if any X-ray machine or device is to be moved in			
order to submit the necessary forms indicating the move and the new room			
location to the State of Tennessee within 10 days of the relocation (the			
University could potentially face monetary fines of \$30k).			

Radiation Safety Office Responsibilities	Completed	N/A	Initials
Remove/move any radioactive materials.			
Survey all equipment that is labeled, or could possibly be contaminated.			
Perform an exit decommissioning survey of the lab space, and remove radiation postings from doors.			
Assist with the packing and moving of any contaminated equipment that can't be cleaned.			

Chemical Safety (Lab Moving)

Were	chemicals	used	in	the	lab?	
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 \Box No (skip to next section) \Box Yes (complete the following)

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	7

Responsible Person Responsibilities	Completed	N/A	Initials
Label all chemical containers with the proper chemical name. Abbreviations, chemical formulas, or structures are not acceptable.			
Close all containers securely			
Sort out unwanted chemicals prior to the move. Unopened and unexpired chemicals may be added to the Chemical Exchange Program. Contact EHS at 974-5084 for more information. Do not dispose of any chemicals in the trash or down the drain, regardless of hazard rating.			
Empty all beakers, flasks, evaporating dishes, oil/water bathes into the proper container and dispose of appropriately (all hazardous materials must be disposed of as hazardous waste).			

Responsible Person Responsibilities	Completed	N/A	Initials
Dispose of empty containers in the trash after removing all markings and			
writing "EMPTY" on the container. Triple rinse empty acid containers			
before disposal. Empty containers which held acutely toxic chemicals			
should be disposed of through EHS. Do not dispose of any chemicals in the trash or down the drain, regardless of hazard rating			
Check containers for expiration dates and signs of corrosion crystallization.			
Peroxide-forming materials should be disposed of if the container has been			
opened and is more than six months old, or if it has not been opened and is			
more than one year old. Always dispose of by the expiration date listed by			
the supplier.			
Dispose of old chemicals and lecture bottles to EHS at one of the waste			
rooms or appropriate waste collections. If you have a large amount of chemicals to dispose of, contact EHS to coordinate a lab chemical cleanout			
at least four weeks before needed.			
Check containers and lids for damage and cracks. Replace any faulty caps			
or containers. Damaged containers cannot be transported. Do not move			
unknowns or leaky containers. Unknowns or leaky containers should be			
disposed of as hazardous waste (all containers must be spill-proof so please			
place any leaky containers in a secondary container).			
Contact DEA to dispose of any controlled substances			
Clean and decontaminate all chemical cabinets, refrigerators, freezers and			
any other chemical storage areas, benchtops and equipment from any			
spilled chemicals. Remove all bench paper.			
Make sure that shared equipment and locations are included in the cleanout and are decontaminated from any radioactive, biohazardous or			
chemical contamination.			
Remove regulators, replace cylinder caps and return all rented compressed			
gas cylinders and lecture bottles that are no longer needed to the vendor.			
Be sure the caps are on the cylinders. Do not attempt to move any			
compressed gas cylinders or lecture bottles in personal or UT owned			
vehicles. Contact EHS for assistance in moving lecture bottles and specialty			
gases. Contact EHS for disposal of any compressed gas cylinders which are non-			
returnable			
Properly dispose of all sharps waste (Bio, Rad or Chemical)			
Thoroughly check all storage areas to ensure no chemicals are left behind.			
Abandoned and unknown chemical containers can be difficult, expensive			
and dangerous to dispose of properly.			
Notify EHS of any materials or procedures that could leave hazardous			
chemical residues (e.g., perchloric acid in a chemical fume hood) or areas			
that cannot be fully decontaminated (e.g., materials potentially containing			
asbestos; fume hoods; refrigerators used in the storage of highly toxic chemicals, etc.).			
Chemicals must be removed from freezers, refrigerators, cabinets, and			
other equipment prior to moving. Temperature sensitive items may be			
transported in coolers, or stored in other areas until they can be moved to			
the new location. Ensure refrigeration is available at new location before			
moving temperature sensitive chemicals/items.			

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Responsible Person Responsibilities	Completed	N/A	Initials
If temperature-sensitive chemicals are moved, a lab representative should			
be present during packing and unpacking to ensure these items remain at the correct temperature.			
Include mercury thermometers and other mercury-containing devices or			
equipment with hazardous materials to be shipped rather than moving them yourself.			
Following the move, place unpacked chemicals in their designated			
locations (cabinets, etc.) within the laboratory.			
Update Chemical Inventory and Door Placard information with EHS as			
soon as possible			

EHS Responsibilities	Completed	N/A	Initials
Perform Exit Survey.			
Dispose of all chemicals, lecture bottles, and other hazardous materials left remaining in lab.			
Address any chemical residue hazards.			
Provide all of the materials required to pack the chemicals in accordance with DOT regulations through the hazardous waste contractor			
Package, transport, and unpack the chemicals, place chemicals on lab benches. (Off-site transportation of hazardous chemicals must only be done by DOT licensed hazardous material carriers.)			

All Other Safety (Lab Moving)

To be completed by all labs

Responsible Person Responsibilities	Completed	N/A	Initials
Ensure that material to be moved or discarded is not stored in hallways or	_	_	
otherwise blocking fire exits or other emergency equipment such as safety			
showers.			
Discard or have repaired damaged electrical equipment (e.g. with frayed			
wiring) prior to moving.			
Contact surplus and fill out the surplus equipment decontamination form			
on any unwanted equipment from the lab that will not be included in the			
move. http://warehousing.utk.edu/			
Leave old batteries and fluorescent lamps in a safe location in the lab for			
disposal as Universal Waste by Facilities Services.			
Bag or box up all trash and refuse (or place in trash cans) and label as trash			
for disposal by housekeeping.			
Notify Facilities Services to bleed any stored electrical energy from			
equipment (e.g., capacitors) bound for trash or surplus to the warehouse.			
Ensure all keys unique to closing lab have been turned in by all members of			
the research group.			

Responsible Person Responsibilities	Completed	N/A	Initials
Notify EHS if you have any of the following items to move (not being moved by a contractor or the manufacturer) as these may need special attention.	Ī		
 Large Batteries, Power Supplies, (Acid concerns) Autoclaves, Ovens, Furnaces, Gloves, Incubators, Fume Hoods, Lab Bench Tops, (Asbestos concerns) Internal Cylinders, Ampules, Canisters, (Compressed Gases) Manometers, Thermometers, Barometers, Silent Switches (Mercury concerns) 			
High Voltage Systems, Power Supplies, Microscope Immersion Oils, Capacitors, Transformers, Hydraulic Fluid (PCB concerns)			
Degreasing Equipment (Solvents concerns)			

STAR Team (Facilities Services) Responsibilities	Completed	N/A	Initials
Utilities			
Move equipment/furniture			
Equipment disconnected from fixed facilities and utility connections in room made safe.			
Bleed stored electrical energy from equipment.			

Department Head, Facility Supervisor, DSO	Completed	N/A	Initials
Ensure the Responsible Person has completed the lab closeout to their satisfaction.			
Approve release of final paycheck pending required signatures.			

Required Sig	Inatures (Lab Moving)	
This lab is considered clean and ready fo faculty, only <u>after</u> all signatures are comp		
Responsible Person:		
Print Department Head, Facility Supervisor, or DSO	Signature	Date:
Department flead, I donity Supervisor, or Doo	•	
Print	Signature	Date:
EHS Representative:		
Print	Signature	Date:
Rad Safety Rep. (Rad Labs only):		
Print	Signature	Date:
Biosafety Rep. (BSL-2 Labs only):		
Print	Signature	Date:
STAR Team Representative:		
Print	Signature	Date:
Current (Interim) Emergency Contact		
Name and Department	Daytime Phone #	After Hours phone #

This record shall be kept in the PI's (or responsible person) permanent personnel file in their respective departmental office for a minimum of 10 years. Electronic copies shall be kept by the Office of Research and Environmental Health & Safety for a minimum of 10 years. A copy of the signature page shall be placed in the sign holder on or next to the laboratory door to be removed by the new occupant

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Appendix C: Commissioning Checklist for Lab Opening

This form is for opening a new lab. This form may follow a Lab Move Form (Appendix B)

General Information

New Lab Location Building:	Room(s):	
Responsible Person (PI):	Phone #:	
Department Head,		
Facility Supervisor,		
or Department Safety Officer	Phone #:	

Four Sections to Review

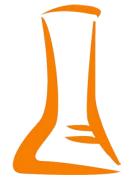
This checklist is provided to direct you in the requirements for a safe and efficient transfer of your hazardous chemicals, radioactive and biological materials, gas cylinders, and lab equipment to your new location.



Biosafety



Radiation Safety



Chemical Safety



Other

Biosafety (Lab Opening)

What biosafety level applies?

□ None (skip to next section)	BSL-1	□ BSL-2
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Responsible Person Responsibilities	Completed	N/A	Initials
All BSCs used for manipulating infectious agents, primary human/animal tissues, plant pathogens under USDA restrictions, and/or biological toxins must be certified/recertified per NSF 49 standard prior to use. The Biosafety Office strongly recommends, but does not necessarily require, recertification of other HEPA-filtered equipment (e.g. BSCs used only for "sterile field" applications, laminar clean benches, etc.) to ensure that the motor function, filter housing, and filters have not been damaged during the move. The new location of equipment and recertification records should be provided to the Biosafety Office/IBC so that existing records can be updated accordingly.			
Register recombinant DNA, infectious agents, human-derived materials, acute biological toxins, or other biohazards with the Institutional Biosafety Committee. Preexisting registrations must be updated with new lab location and infrastructure details.			
Placard lab doors and label equipment used to process and/or store biohazards with a biohazard symbol.			
Biohazards are to be securely stored (e.g. lockable freezer or lab door), thoroughly labeled, and contained to prevent drips, leaks, spills, etc.			
All lab personnel must receive and document site-specific and programmatic biosafety training as required by the Biosafety Office.			
Establish a Biosafety Manual for labs designated Biosafety Level-2 or 3.			

□ **BSL-3**

Biosafety Office Responsibilities	Completed	N/A	Initials
Provide biosafety training, including new site-specific training templates.			
Provide biosafety door placards/signage and biohazard labels.			
Provide biosafety manual template or assist updating existing manual.			
Assist with IBC registration submissions or updates as applicable.			
Perform start-up survey to verify that all equipment is in place, BSCs are certified, biohazard labels are applied, and door(s) placarded.			

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Radiation Safety (Lab Opening)

Were radioactive materials used in the lab?



Responsible Person Responsibilities	Completed	N/A	Initials
Notify Radiation Safety of the new room location for any laser equipment.			
Contact Radiation Safety to walk through new lab area to establish storage areas for radioactive materials, security, rad fume hood testing, postings and labeling.			

Radiation Safety Office Responsibilities	Completed	N/A	Initials
Provide Radiation Safety training			
Issue dosimeters where required			

Chemical Safety (Lab Opening)

Were chemicals used in the lab?

 \Box No (skip to next section) \Box Yes (complete the following)

Responsible Person Responsibilities	Completed	N/A	Initials
Only order chemicals you need.			
Store your chemicals using a good compatibility plan.			
Keep a chemical inventory of what you have in stock and update inventory once move in is completed (add all new chemicals, compressed gas cylinders and cryogenics), turn in to EHS at ehs_labsafety@utk.edu.			
Develop/update the Chemical Hygiene Plan for the new location. Visit the Lab Safety Section of the EHS website for assistance. https://ehs.utk.edu/			
Establish a chemical spill kit appropriate for the materials to be used in the lab.			
Properly secure all compressed gas cylinders.			

EHS Responsibilities	Completed	N/A	Initials
Provide orientation information and documents in support of new chemical activities.			

All Other Safety (Lab Opening) To be completed by all labs



Responsible Person Responsibilities	Completed	N/A	Initials
Complete a new lab door placard and submit it to EHS			
Contact EHS to test emergency equipment, evaluate any additional needs, and provide needed information and assistance.			
Complete or request General Lab Safety Training (including Hazardous Waste training as necessary) with EHS			
Provide lab specific training (by the PI or lab manager) that is current and documented for everyone working in the new laboratory.			

EHS Responsibilities	Completed	N/A	Initials
Print and install new door placards			
Inspect fire extinguishers			
Inspect eyewashes			
Test face velocity of fume hood(s)			
Provide General Lab Safety Training, Hazardous Waste Training, and other training as requested.			

STAR Team (Facilities Services) Responsibilities	Completed	N/A	Initials
Test safety showers			

Department Head, Facility Supervisor, DSO	Completed	N/A	Initials
Research lab personnel should be introduced to (or informed of the identity of) the DSO and informed of their shared roles in ensuring a safe lab environment. All lab members should know who their DSO is and how they can request further assistance.			

Required Signatures (Lab Opening)

Responsible Person:

Print	Signature	Date:
Department Head, Facility Supervisor, or D	DSO:	
Print	Signature	Date:
EHS Representative:		
Print	Signature	Date:
Rad Safety Rep. (Rad Labs only):		
Print	Signature	Date:
Biosafety Rep. (BSL-2 Labs only):		
Print	Signature	Date:
1 THIC	Signature	Date.
STAR Team Representative:		
Print	Signature	Date:

This record shall be kept in the PI's (or responsible person) permanent personnel file in their respective departmental office for a minimum of 10 years. Electronic copies shall be kept by the Office of Research and Environmental Health & Safety for a minimum of 10 years.

TENVIRONMENTAL HEALTH & SAFETY

