

BPHL Effective Date: 1/9/2018 Author: Cooper/Kopp/Seaton

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Biosafety Risk Assessment: General Considerations Worksheet

This is intended to be used in conjunction with the "Conducting a Biosafety Risk Assessment" Standard Operating Procedure. This worksheet is meant to be used in the "Analysis of Overall Procedural Considerations" step and will aid in the evaluation of overall procedural considerations, including ones specific to the procedure being considered, the laboratory unit/section/department, and the institution.

Overview

- 1. For considerations listed in a yes/no/N/A format, choose one of the three answers and provide a comment if desired.
 - 1.1. If a consideration isn't applicable to the procedure, laboratory unit/section/department, or institution in question, choose "N/A" (not applicable).
- 2. For free-response considerations, write in the appropriate answer.
 - 2.1. If a consideration isn't applicable to the procedure, laboratory unit/section/department, or institution in question, write "N/A" (not applicable).
- 3. The **source** providing the origin of each consideration is included in the last column (**'S**'). The number of the source corresponds to one of the sources in the Sources section below.

Sources

- APHL (Association of Public Health Laboratories) A Biosafety Checklist: Developing A Culture of Biosafety (April 2015)
 - 1.1. http://www.aphl.org/AboutAPHL/publications/Documents/ID_BiosafetyChecklist_42015.pdf
- 2. APHL (Association of Public Health Laboratories) Template for Public Health Laboratory Risk Assessment for Ebola Virus Disease (EVD) Testing
 - 2.1. http://www.aphl.org/aphlprograms/preparedness-and-response/documents/aphl-template.pdf
- 3. CDC (Centers for Disease Control and Prevention) Assessment Tool for Ebola Treatment Centers and Assessment Hospitals 5-18-2015 (v17)
 - 3.1. See http://sos.ri.gov/documents/publicinfo/omdocs/minutes/1293/2015/41778.pdf for an example of where this can be found and its intended audience.
- 4. CDC (Centers for Disease Control and Prevention) MMWR (Morbidity and Mortality Weekly Report) Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories 4.1. http://www.cdc.gov/mmwr/pdf/other/su6101.pdf
- 5. Sandia Report SAND2010-6487 Biosafety Risk Assessment Methodology (Susan Caskey et al., printed October 2010)
 - 5.1. http://biosecurity.sandia.gov/BioRAM/Biosafety%20Risk%20Assessment%20Report.pdf

These resources are the product of research from respected biosafety sources that were combined to help create a biorisk program. Please follow your own professional judgement, your institution's established guidelines, and any applicable local, state, and federal requirements.



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Procedure-specific

These considerations apply to all laboratory units/sections/departments.

They apply to the specific procedure(s) being assessed.

Consideration	Yes	No	N/A	Comment	S
Biological Safety					
Is there potential for aerosol generation during this					2
procedure?					
☐ If yes, what are the tasks with this potential?					
					2
Is all the equipment used in this procedure with a					
potential to generate infectious aerosols (e.g.					
vortex mixer, centrifuge, sonicator) isolated or					
sealed in a manner to prevent aerosol escape					5
(e.g. tubes sealed with caps or other covering					
prior to mixing with a vortex mixer, sealed					
centrifuge rotor cups, equipment in BSC or in a biobubble, etc) prior to use?					
Is there a potential for a splash or spill of					
infectious material in this procedure?					5
☐ If yes, what is the potential and extent?				<u> </u>	
will you, what is the potential and extent:					5
☐ If yes, are stand-alone splash guards available?					
⊢ If yes, are PPE splash guards available (such as					
goggles or safety glasses)?					
Are sharps used?					2
☐ If yes, what is the sharp (needle, blade, pipette tip	, etc.):	?			2
					2
feature?					
Does work include a Biological Safety Cabinet					2
(BSC)?					
☐ If yes, has the BSC been certified within the					2
past year?					
⊔ If yes, are the air vents not blocked?					2
☐ If yes, is the sash used at the proper height and					2
operable?					
→ If yes, is it a Class II BSC?					2
Personal Protective Equipment					I
Is respiratory protection required?					2
☐ If yes, are users enrolled in a respiratory					2
protection program?					_
Engineering Controls				T	
Are transport containers used?					2



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Biological Safety

These considerations apply to all laboratory units/sections/departments that may handle biological specimens.

Consideration	Yes	No	N/A	Comment	S
What is the biosafety level (BSL) in this unit?					2
(BSL-1, BSL-2, BSL-3, N/A)					
Are centrifuge rotors sealed with O-rings to					1
prevent aerosolization?					ı
<i>⊢</i> If yes, are seals checked regularly and					
documented?					
Is absorbent material used for all procedures (on					
the bench or BSC) and disposed of after each					5
use?					
Is there a policy in place for safe handling of					1,2
sharps, including the use of sharps containers?					1,2
Are proper practices for reducing percutaneous					
exposure identified in the laboratory procedures,					5
taught, and verified on a regular schedule?					
Is the use of needles and syringes limited to					
procedures for which there are no alternative					4
methods?					
Is the resheathing of needles prohibited?					4
If resheathing is absolutely required, does					4
procedure utilize a needle resheathing device?					4
Is the use of needle-cutting devices prohibited?					4
Is there a large amount of breakable material					
(especially glassware) or items with sharp edges					5
in this laboratory?					
⊢ If yes, what are the greatest concerns for breakag	e and	sharp e	edges?	•	
					5
Are BSCs used effectively including the following:		T	T		1
 Are BSCs free of clutter and both the front and 					1
back grates kept clear?					
Are closed centrifuge carriers opened only in the					1
BSC?					<u> </u>
If there are vacuum lines in BSCs, are they					1
protected with liquid trap or an in-line HEPA filter?					<u> </u>
Are surfaces in the laboratory easy to					5
decontaminate?					
Are bench tops impervious to water and resistant					
to heat, organic solvents, acids, alkalis, and other			1		4
chemicals?					
Are chairs used in laboratory work covered with a					4
nonporous material that is easily cleaned?					
Is there a policy in place for decontaminating					1
surfaces after completion of work?					1



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Consideration	Yes	No	N/A	Comment	S
Are work surfaces decontaminated with an appropriate disinfectant after completion of work and after any spill or splash of potentially infectious material?					4
Are instructions for disinfecting a laboratory work bench part of each SOP?					4
→ If yes, do these include what PPE to wear, how to clean surfaces, what disinfectant to use, disinfectant contact time, and how to dispose of cleaning materials?					4
Are disinfectants recommended for environmental surfaces (such as EPA–registered disinfectants effective against hepatitis B virus, HIV, and other bloodborne pathogens or a 1:10 dilution of household bleach) used for disinfecting surface areas?					4
Are biosafety levels chosen based on risk assessments for every assay performed in your laboratory?					1
Is there controlled access to biosafety level 2, 3, and 4 laboratories?					1
Are eating, drinking, storing food or beverages, chewing gum, applying cosmetics, handling contact lenses, and smoking prohibited in the laboratory?					1,4
Does the laboratory have a sink for hand washing, preferably located near the laboratory exit?					4
Is there a policy in place for hand washing?					1,4
If yes, does it require the washing of hands after working with potentially hazardous materials and before leaving the laboratory?					1,4
Are hands always decontaminated prior to handling "Clean" objects, such as door handles and computer keyboards?					5
Are protective covers for computer keyboards used?					4
→ If yes, are they easily cleanable and routinely disinfected along with the bench top, at least at the end of the work shift?					4
Is there a policy restricting touching eyes, nose, mouth, and lips while in the laboratory?					4
Is there a policy restricting placing pens, pencils, safety glasses, or other laboratory items in the mouth or against the lips?					4
Is mouth pipetting prohibited?					4



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Consideration	Yes	No	N/A	Comment	S
Is there a policy requiring flushing for a minimum of 15 minutes after all splashes to the eye?					4
Is health monitoring performed in this Unit?					2
→ If yes, what is the frequency and process?					2
Are gloves worn in the diagnostic laboratory considered potentially contaminated and placed into biohazard disposal containers when discarding?					4
Is equipment decontaminated prior to being maintained or repaired?					5
→ If yes, is the process documented and validated?					5
Have laboratory directors and supervisors assessed the exposure risks associated with use of laboratory documents and reference materials in the dirty areas of the laboratory and developed use policies to minimize those risks?					4
Are all biological agents inventoried?					5



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Chemical Safety

Consideration	Yes	No	N/A	Comment	S
Is regular training conducted in hazard					
communication and chemical hygiene?					
Proper labeling: Are all containers labeled with the					2
name of chemical?					
Is the fire department permit posted on the					2
laboratory door?					
Is there an updated chemical inventory?					2
Are (material) safety data sheets (SDS/MSDS)					2
accessible to staff?					
Are incompatible chemicals segregated?					2
Are flammable liquids stored in rated chemical					2
cabinets?					
Are flammable liquids stored in flammable-rated					2
refrigerators/freezers?					
Are excess chemicals stored in chemical storage					2
room?					
Are compressed gas cylinders stored in					2
laboratory?					
△If yes, are they properly secured?					
Are chemicals stored at eye-level?					2
Are acids and bases stored in a cabinet?					2
Are acids and bases stored in a labeled area?					2
Are acids and bases stored free from metals?					2
Are chemical fume hoods certified within past					2
year?					
Do chemical fume hoods have their sash closed					2
when not in use?					
Is the exhaust air of chemical fume hoods not					2
blocked by large equipment or containers?					
Are chemical fume hoods used for					2
hazardous/toxic or flammable procedures?					_



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Personal Protective Equipment

These considerations apply to all la		ry uriits	/5 C CIIO	ns/departments.	
Consideration	Yes	No	N/A	Comment	S
Is basic personal protective equipment (PPE)					
provided for all personnel working in the					
laboratory? (Basic PPE includes gloves, laboratory					1
coats or gowns, protective eyewear or face					
protection, etc.)					
Do staff receive annual PPE competency					
assessment?					2
Is there a formal PPE program in place, including					
well-defined written procedures for donning,					
doffing, storing, and maintaining PPE, including					1,5
laboratory coats, gloves, protective eyewear, face					,,,
shields, N95 and/or PAPRs?					
→ If yes, does the written plan include instructions					
indicating PPE should be removed before exiting		_			1,5
the laboratory?					.,0
Is PPE appropriately stored in laboratory?					2
Is PPE inspected prior to use and in good					
condition?					2
Is all PPE (including gloves, safety glasses,					
respirators, laboratory coats, etc.) not worn					2,4
outside of laboratory area?					
Are laboratory coats and gowns worn to prevent					4
exposure of street clothing?					4
Are laboratory coats available for all staff who may					1
enter a laboratory?					1
Are cryo or autoclave gloves used?					2
☐ If autoclave gloves are used, are they thick,					
elbow-length, heat-resistant, and liquid-					2
impervious?					
Are closed-toe shoes that cover entire foot worn in					2
laboratory?					2
Are gloves or bandages worn to protect non-intact					1
skin?					4
Are proper practices for reducing/eliminating					
contact exposure through broken skin identified in					_
the laboratory procedures and taught and verified					5
on a regular basis?					
Are gloves worn when handling potentially					
contaminated materials, containers, equipment, or					4
surfaces?					
Is there a written policy for when to change					4
gloves?					1
Are gloves discarded after each use?					4
Are various sizes of gloves provided?					1
<u> </u>					4



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Consideration	Yes	No	N/A	Comment	S
Are gloves provided made of different materials (e.g., nitrile, chloroprene) for employees who have skin sensitivity?					4
Are extra-safe glove practices employed while using sharps (e.g. needles, scalpels, etc.), including wearing two pairs of latex or nitrile type gloves or wearing heavy gloves (e.g. leather or thick rubber gloves)?					5
Are eye and face protection (goggles, mask, face shield, or other splatter guard) used whenever a splash or spray event could occur, includes opening containers and pipetting, manipulating, aliquoting, or testing specimens, cultures, biological agents, or other hazardous materials outside the BSC?					4



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Emergency Preparedness

controlation apply to all la		,	,		
Consideration	Yes	No	N/A	Comment	S
Is emergency contact information posted?					2
Is a first aid kit maintained?					2
Are biological spill kits available, readily					
accessible to all laboratory personnel, and					
maintained?					1,2
☐ If yes, are personnel regularly trained in their					
use?					
Are chemical spill kits available, readily accessible					
to all laboratory personnel, and maintained?					1,2
☐ If yes, are personnel regularly trained in their					
use?					
Does the lab have validated and exercised spill					
response procedures, including spill response kits					
(which contain appropriate PPE, cleaning items,					
and other required items), training on spill					
response, plans for validation of spill cleanup, spill					
response SOPs, and spill response					
decontamination mechanisms including waste					
validation?					5
Is there a procedure in place if a potentially					
infectious aerosol release occurs outside a BSC?					4
☐ If yes, does the procedure include:		T	T	T	4
Having all persons immediately vacate the					
laboratory unit where the spill occurred?					4
Referral of exposed persons for medical advice					
and evaluation?					4
Informing the laboratory supervisor and biosafety					
officer of the situation immediately?					4
• Instructions to ensure no one enters the room for					
at least 30 minutes to allow aerosols to be carried					1
away and heavier particles to settle?					4
• A further delayed entrance (e.g., up to 24 hours)					
if the laboratory does not have a central air					4
exhaust system?					4
Posting signs indicating that entry is forbidden?					4
Decontamination, supervised by the biosafety officer offer the appropriate time?					4
officer, after the appropriate time?					4
Appropriate PPE must be worn, which may include respirators?					1
include respirators?					4
Are there standard operating procedures in place					
for unexpected or catastrophic incidents, including					
the release of or exposure to an infectious agent					_
(e.g. Incident response plans)? Are staff aware of occupational injury procedures?					5 2
i Are stail aware of occupational injury procedures?				Í	I 2



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Consideration	Yes	No	N/A	Comment	S
Are the eye wash and shower stations flushed and					
checked weekly?					1
Does the institution conduct biosafety drills or					
exercises at predetermined intervals, including					
tabletop exercises, annual exercises, and					
exercises that include external responders?					1,5
Are there procedures in place to detect safety					
breaches when they occur?					1
Is there a system to report safety breaches to					
laboratory leadership?					1
Is there a procedure specifying how biosafety					
breaches will be addressed and which staff are					
responsible for addressing them?					1
Are corrective actions implemented when					
breaches in biosafety are identified?					1
Is there an occupational health program?					1
Is there a medical surveillance program, including					
well-defined procedures and plans, in place in the					
event of exposure to an infectious agent?					1,5
Are there procedures in place for preventative					
equipment maintenance to reduce/eliminate					
accidents or equipment failure?					5
validation, and certification?					5



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Documentation and Training

Consideration	Yes	No	N/A	Comment	S
Have employee(s) completed right-to-know				Common	
training?					2
Have employee(s) completed unit-specific					
training?					2
Have employee(s) read and understand safety					
and health plans?					2
Are biohazard signs posted by the entrance of laboratories where infectious agents are					
processed and tested and in other areas where					1
indicated?					
					2
Is the door sign up-to-date and posted?					
Does equipment such as centrifuges, incubators,					
freezers involved in the use and storage of					2
infectious materials have the biosafety label					
affixed?					
Is there a policy restricting the storage of food or					١.
beverages for human consumption in the					4
laboratory?					
Are laboratory microwaves and refrigerators					2
labeled with "Not for Food or Drink – Biohazard"?					
Is there an institutional biosafety plan?					1
Does the institution have comprehensive biosafety					
documentation, including biosafety policies,					5
manuals, SOPs, and risk assessment and incident					3
response information?					
Does the institution periodically review the					
biosafety program, including assessing					
opportunities for improvement and any needs for					5
changes to the system, procedures, policies, and					
objectives?					
Is there a designated Laboratory Biosafety					1
Officer?					1
Is there an institutional biosafety committee or					4
similar group?					1
Does the institutional biosafety committee or					4
similar group meet at established time intervals?					1
☐ If yes, does the group discuss breaches in					
biosafety, corrective actions, maintenance issues					
related to biosafety, and pending certifications of					1
equipment?					
Are internal safety audits performed at least					_
annually and after significant safety breaches?					1
Is there a written policy and/or a standard					
operating procedure (SOP) for performing risk					1
assessments?					



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Consideration	Yes	No	N/A	Comment	S
Do risk assessments consider both agent hazards					1
and laboratory procedure hazards?					'
Has the person performing the risk assessment					
received training, and is the person experienced in					1
risk assessments?					4
Is a risk assessment performed when:			Ι	I	1
New assays are introduced?New methods are introduced?					1
New methods are introduced? Equipment is moved?					1
New equipment is introduced?			H		1
The potential for aerosolization is introduced?					1
The potential for needlesticks is introduced?					1
A laboratory is physically moved?					1
A new pathogen is detected?	$\overline{}$				1
Staffing changes?					1
Are risk assessments conducted annually for					'
assays performed in the laboratory?					1
Do laboratory personnel receive training in the					
Biosafety Laboratory Competencies as outlined in					
the CDC's MMWR, Guidelines for Biosafety					1
Laboratory Competency?					
Do all new personnel receive safety training					
before they begin working in their assigned					1
laboratory?					
Is there an annual biosafety training program for					1
all personnel?					
☐ If yes, do annual biosafety training programs					1
include: • Risk assessments?			Ι —	I	1
					1
Biosafety leberatory competencies?					1
Biosafety laboratory competencies? Occupational health?					1
Is there an annual training program on PPE that					'
covers:					1,4
• When PPE is necessary?					1,4
• What PPE is necessary?					1,4
How to properly put on (don), take off (doff),					.,-
adjust, and wear PPE including laboratory coats,	_		_		.
gloves, protective eyewear, face shields, N95					1,4
and/or PAPRs?					
Limitations of PPE?					1,4
Proper care, maintenance, useful life, and					1,4
disposal of PPE?					1,4
Is there an annual blood borne pathogen training					
program for all personnel?					1



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Consideration	Yes	No	N/A	Comment	S
Is documentation completed for employee training					
and competency assessment in medical waste					4
handling for:			ı		
Constructing and properly labeling containers for					
medical waste that require assembly before their					4
use?					
Disposing of medical waste in properly labeled					4
containers?					7
Use of appropriate supplies (e.g. containers,					4
appropriate plastic bags, labeling)?					•
 Following all federal, state, and local regulations 					
regarding waste management (i.e. handling of					
medical waste; immediate disposal of medical					
waste; storage of medical waste; transportation of					
medical waste, which includes any required					4
Department of Transportation labeling (e.g. the					
word "Biohazard" and the universal biohazard					
symbol) of transport containers; and final disposal					
of medical waste)?					
Do laboratorians who operate centrifuges have					
documented training and competency					4
assessments on each type of centrifuge they					7
operate?					
☐ If yes, does the documented instruction for each					
centrifuge type include proper instrument startup					
and shutdown, emergency procedures and					
shutdown, balancing of tubes, use of safety cups					4
and covers, rotor and container selection,					
requirements for high-speed and ultracentrifuges,					
and container fill-height limitations?					
Are vaccines recommended for work in this Unit?					1,2
☐ If yes, how are employees informed of the					
vaccines?					1,2
☐ If yes, what vaccines are recommended?					1,2
					- ,-
☐ If yes, are personnel offered appropriate		Ш			
vaccinations for working in their assigned					1,2
laboratory?					,
During pre-employment physical, is baseline					
serum collected as necessary to document					1
potential occupational exposures?					
le there a poodlectick and sharps injury presenting					
Is there a needlestick and sharps injury prevention		Ш			,
program?					4



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Consideration	Yes	No	N/A	Comment	S
Does the institution have an active shipping and receiving program with well-defined procedures and plans in place?					5
→ If yes, have all individuals involved in packaging and shipping been trained and certified in the last two years?					



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Engineering Controls

Consideration	Yes	No	N/A	Comment	S
Is there directional inward airflow from the main					
laboratory into the microbiology laboratory in					4
newly constructed diagnostic laboratories?					
Are BSCs continually operated to provide some					
direction to potential aerosols in a previously					4
constructed laboratory without directional room					•
air?					
Is a BSC or similar containment device used for					4
procedures with splash or aerosol potential?					·
Are splash guards used at workstations when					
working with blood cultures and at workstations					4
where the potential for splashing exists?					
For BSCs that vent to the outside, are outside					
vents placed away from the facility's air intake					4
units?					
If BSCs are used, are there procedures in place					5
for proper use?					
Are autoclaves located in a well-ventilated area or					4
exhausted through a capture hood above them?					
Does the mycobacteriology laboratory have its					4
own autoclave?					
Are autoclave cycles validated before initial use					
for effective decontamination of the projected					4
loads?					
Are autoclaves tested for efficacy using biological					1
or chemical indicators on a regular basis?					
Are the following certified at least annually:		T	Г		1
• BSCs?					1
• Autoclaves?					1
• HVAC?					1
HEPA Filters?					1
• BSL-3 Suites?					1



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Waste Management

Consideration	Yes	No	N/A	Comment	S
Does the institution have a waste management					4
plan that includes:					4
Waste-reduction or minimization program?					4
 Identification and definition of all categories of 					4
waste generated by the laboratory?					4
 For each category of waste generated, 					
determination of applicability of federal, state, and					4
local regulations?					
Segregation of all regulated waste to prevent					4
access by the public or clients?					7
Establishment of a system for reporting and					
responding to all issues or problems regarding					4
medical waste management?					
Establishment of treatment and disposal					
processes, with disposal of regulated waste by a					4
company meeting state and local licensure					•
requirements?					
Is there a policy in place for proper disposal of					1
biomedical waste and sharps?					
Is there a decontamination facility or medical					4
waste contract in place?					•
Are chemical waste containers labeled with					2
chemical name and percent of each chemical?					
Are chemical waste containers properly sealed?					2
Is contaminated waste stored properly and					5
handled according to best practices?					
Is broken glass placed in appropriate receptacle?					2



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Hospital with Potential Ebola (EVD) Specimen

These considerations apply to all hospital laboratory units/sections/departments that may handle a specimen that could contain Ebola virus.

Consideration	Yes	No	N/A	Comment	S
Are protocols in place to send specimens for Ebola testing to the nearest Laboratory Response Network (LRN) laboratory capable of testing for					3
Ebola?					
If the hospital is using a commercial Ebola virus test, are paired specimens submitted to an LRN facility or CDC for definitive Ebola virus testing?					3
Is the hospital prepared to provide a timely and minimum menu of testing to ensure patient care is not compromised while patients undergo assessment and prior to availability of Ebola laboratory testing results?					3
→ If yes, does this include CBC, glucose, potassium, malaria exam, influenza test, and tests for liver function?					3
Are protocols in place for handoff and placement of specimen tubes into appropriate containers for transport to hospital laboratory?					3
Have personnel who process primary patient specimens, when Ebola is a concern, demonstrated competency in donning and doffing PPE and processing specimens while wearing PPE?					3
Is there a designated area for laboratory personnel to safely doff PPE?					3
Are protocols in place for cleaning and disinfection of laboratory surfaces and equipment, management of blood and body fluid spills, and exposure of staff?					3
Is a tracking system is in place for patient specimens that are transported to the laboratory?					3
Is a policy in place for safe short-term storage and disposal of Ebola patient specimens?					3



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BSL-3 (Biosafety level 3)

These considerations apply to all biosafety level 3 laboratory units/sections/departments.

Consideration	Yes	No	N/A	Comment	S
Biological Safety					
Is there a policy (SOP) in place for inactivating					
BSL-3/4 agents prior to moving them to BSL-2 for					1
testing?					
Personal Protective Equipment					
Are respirators or PAPRs available to					
appropriately trained staff to use in BSL-3					4
laboratories and/or when working with organisms					'
requiring their use?					
Documentation and Training					
Are trained employees required to have an annual					1
respirator fit test if indicated?					ı
Engineering Controls					
Is the sink provided for hand washing able to be					1
operated hands-free?					4