Inspection Checklist for NIH BL4 Laboratories (7 CFR 331; 9 CFR 121; 42 CFR 73; NIH Guidelines)								
Entity Name:	0	Ins	p. D	ate:	January 0, 1900			
Street Address:	,,							
City, State, Zip:	,,		RO:	0				
Lead Inspector:		ARC)(s):					
Other Inspectors:								
Building/Room(s):								
PI(s):								
HHS Agents:								
Overlap Agents:								
USDA Agents:								
	When information is entered in this form, the form is to be	con	sider	ed "	Sensitive Select Agent Information ."			
Entity Name:	0		_		January 0, 1900			
Reference	Statement		spon No		Comments			
	NIH BL4 (rDNA) RE							
CFR: Section 12(a)	An individual or entity required to register under this part must develop and implement a written biosafety plan that is commensurate with the risk of the agent or toxin, given its intended use.							
CFR: Section 12(a)	The biosafety plan must contain sufficient information and documentation to describe the biosafety and containment procedures.							
CFR: Section 12(b)	The biosafety and containment procedures must be sufficient to contain the select agent or toxin (e.g., physical structure and features of the entity, and operational and procedural safeguards).							
CFR: Section 12 (c)(3)	In developing a biosafety plan, an individual or entity should consider: The "NIH Guidelines for Research Involving Recombinant DNA Molecules," (NIH Guidelines). Copies may be obtained from the Centers for Disease Control and Prevention, 1600 Clifton Road, Mail Stop E-79, Atlanta, Georgia, 30333 or from the CDC web site at http://www.cdc.gov/. Copies may be inspected at the Centers for Disease Control and Prevention, 1600 Clifton Road, Mail Stop E-79, Atlanta, Georgia.							

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		Yes	No	N/A	
CFR: Section 12(d)	The plan must be reviewed annually and revised as necessary.				
CFR: Section 12(d)	Drills or exercises must be conducted at least annually to test and evaluate the effectiveness of the plan.				
CFR: Section 12(d)	The plan must be reviewed and revised, as necessary, after any drill or exercise and after any incident.				
CFR: Section 13 (a)	An individual or entity may not conduct a restricted experiment with a HHS select agent or toxin unless approved by and conducted in accordance with any conditions prescribed by the HHS Secretary.				
CFR: Section 13 (a)	In addition, an individual or entity may not conduct a restricted experiment with an overlap select agent or toxin unless approved by and conducted in accordance with any conditions prescribed by the HHS Secretary, after consultation with Administrator.				
CFR: Section 13 (b)(1)	Restricted experiments: Experiments utilizing recombinant DNA that involve the deliberate transfer of a drug resistance trait to select agents that are not known to acquire the trait naturally, if such acquisition could compromise the use of the drug to control disease agents in humans, veterinary medicine, or agriculture.				
CFR: Section 13 (b)(2)	Restricted experiments: Experiments involving the deliberate formation of recombinant DNA containing genes for the biosynthesis of select toxins lethal for vertebrates at an LD50 < 100 ng/kg body weight.				
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NIH: G-II-D-1-a	Work surfaces are decontaminated at least once a day and immediately after any spill of viable material.				
NIH: G-II-D-1-b	Only mechanical pipetting devices are used.				
NIH: G-II-D-1-c	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the laboratory.				
	All procedures are performed carefully to minimize the creation of aerosols.				
NIH: G-II-D-1-d					

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D		Yes	No	N/A	
NIH: G-II-D-2-a	Biological materials to be removed from the Class III cabinets or from the Biosafety Level 4 (maximum containment) laboratory in a viable or intact state are transferred to a non-breakable, sealed primary container and then enclosed in a non-breakable, sealed secondary container. This is removed from the facility through a disinfectant dunk tank, fumigation chamber, or an airlock designed for this purpose.			Γ	
NIH: G-II-D-2-b	No materials, except for biological materials that are to remain in a viable or intact state, are removed from the Biosafety Level 4 (maximum containment) laboratory unless they have been autoclaved or decontaminated before they leave the laboratory and/or exit the facility.				
NIH: G-II-D-2-b	Equipment or material that might be damaged by high temperatures or steam may be decontaminated by gaseous or vapor methods in an airlock or chamber designed for this purpose.				
NIH: G-II-D-2-c	Only persons whose presence in the facility or individual laboratory rooms is required for program or support purposes are authorized to enter. The supervisor has the final responsibility for assessing each circumstance and determining who may enter or work in the laboratory.				
NIH: G-II-D-2-c	Access to the facility is limited by means of secure, locked doors; accessibility is managed by the Principal Investigator, Biological Safety Officer, or other person responsible for the physical security of the facility.				
NIH: G-II-D-2-c	Before entering, persons are advised of the potential biohazards and instructed as to appropriate safeguards for ensuring their safety.				

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Reference	Statement	Yes	No	N/A	Comments
NIH: G-II-D-2-c	Authorized persons comply with the instructions and all other applicable entry and exit procedures.				
NIH: G-II-D-2-c	A logbook, signed by all personnel, indicates the date and time of each entry and exit.				
NIH: G-II-D-2-c	Practical and effective protocols for emergency situations are established.				
NIH: G-II-D-2-d	Personnel enter and leave the laboratory and/or exit the facility only through the clothing change and shower rooms.				
NIH: G-II-D-2-d	Personnel use the airlocks to enter or leave the laboratory only in an emergency.				
NIH: G-II-D-2-e	Street clothing is removed in the outer clothing change room and kept there.				
NIH: G-II-D-2-e	Head covers are provided for personnel who do not wash their hair during the exit shower.				
NIH: G-II-D-2-e	When exiting the laboratory and before proceeding into the shower area, personnel remove their laboratory clothing and store it in a locker or hamper in the inner change room.				
NIH: G-II-D-2-e	Protective clothing shall be decontaminated prior to laundering or disposal.				
NIH : G-II-D-2-f	When materials that contain organisms containing recombinant DNA molecules or experimental animals are present in the laboratory or animal rooms, a hazard warning sign incorporating the universal biosafety symbol is posted on all access doors. The sign identifies the agent, lists the name of the Principal Investigator or other responsible person(s), and indicates any special requirements for entering the area (e.g., the need for immunizations or respirators).				
NIH : G-II-D-2-g	Supplies and materials needed in the facility are brought in by way of the double-doored autoclave, fumigation chamber, or airlock, which is appropriately decontaminated between each use.				

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NIH: G-II-D-2-g	After securing the outer doors, personnel within the facility retrieve the materials by opening the interior doors of the autoclave, fumigation chamber, or airlock.	Yes	No	N/A	
NIH: G-II-D-2-g	These doors are secured after materials are brought into the facility.				
NIH: G-II-D-2-h	An insect and rodent control program is in effect.				
NIH: G-II-D-2-i	Materials (e.g., plants, animals, and clothing) not related to the experiment being conducted are not permitted in the facility.				
NIH: G-II-D-2-j	Hypodermic needles and syringes are used only for parenteral injection and aspiration of fluids from laboratory animals and diaphragm bottles.				
NIH: G-II-D-2-j	Only needle-locking syringes or disposable syringe-needle units (i.e., needle is integral part of unit) are used for the injection or aspiration of fluids containing organisms that contain recombinant DNA molecules.				
NIH: G-II-D-2-j	Needles should not be bent, sheared, replaced in the needle sheath or guard, or removed from the syringe following use.				
NIH: G-II-D-2-j	The needle and syringe should be placed in a puncture-resistant container and decontaminated, preferably by autoclaving before discard or reuse.				

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Reference	Statement	Yes	No	N/A	Comments	
NIH: G-II-D-2-j	Whenever possible, cannulas are used instead of sharp needles (e.g., gavage).					
NIH: G-II-D-2-k	A system is set up for reporting laboratory accidents, exposures, employee absenteeism, and for the medical surveillance of potential laboratory-associated illnesses.					
NIH : G-II-D-2-k	Spills and accidents which result in overt exposures to organisms containing rDNA molecules are immediately reported to the Biological Safety Officer, Institutional Biosafety Committee, and NIH/OBA. Reports to the NIH/OBA shall be sent to the Office of Biotechnology Activities, National Institutes of Health, 6705 Rockledge Drive, Suite 750, MSC 7985, Bethesda, MD 20892-7985 (20817 for non-USPS mail), 301-496-9838, 301-496-9839 (fax). Written records are prepared and maintained. An essential adjunct to such a reporting-surveillance system is the availability of a facility for quarantine, isolation, and medical care of personnel with potential or known laboratory associated illnesses.					
NIH: G-II-D-2-I	Laboratory animals involved in experiments requiring BL4 level physical containment shall be housed either in cages contained in Class III cabinets or in partial containment caging systems, such as Horsfall units (see Appendix G-III-K, Footnotes and References of Appendix G), open cages placed in ventilated enclosures, or solid-wall and -bottom cages placed on holding racks equipped with ultraviolet irradiation lamps and reflectors that are located in a specially designed area in which all personnel are required to wear one-piece positive pressure suits.					
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NIH: G-II-D-2-m	Experimental procedures involving a host-vector system that provides a one-step higher level of biological containment than that specified may be conducted in the BL4 facility using containment equipment requirements specified for the BL3 level of physical containment. Alternative combinations of containment safeguards are shown in Appendix G-Table 1, Possible Alternate Combinations of Physical and Biological Containment Safeguards.					
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NIH: G-II-D-3-a	All procedures within the facility with agents assigned to Biosafety Level 4 are conducted in the Class III biological safety cabinet or in Class I or II biological safety cabinets used in conjunction with one-piece positive pressure personnel suits ventilated by a life-support system.					
E						
NIH: G-II-D-4-a	The maximum containment facility consists of either a separate building or a clearly demarcated and isolated zone within a building.					
NIH: G-II-D-4-a	Outer and inner change rooms separated by a shower are provided for personnel entering and exiting the facility.					

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Reference	Statement	Yes	No	N/A	Comments	
NIH : G-II-D-4-a	A double-doored autoclave, fumigation chamber, or ventilated airlock is provided for passage of those materials, supplies, or equipment which are not brought into the facility through the change room.					
NIH : G-II-D-4-b	Walls, floors, and ceilings of the facility are constructed to form a sealed internal shell which facilitates fumigation and is animal and insect proof.					
NIH : G-II-D-4-b	The internal surfaces of this shell are resistant to liquids and chemicals, thus facilitating cleaning and decontamination of the area.					
	All penetrations in these structures and surfaces are sealed.					
NIH: G-II-D-4-b						
NIH : G-II-D-4-b	Any drains in the floors contain traps filled with a chemical disinfectant of demonstrated efficacy against the target agent, and they are connected directly to the liquid waste decontamination system.					
NIH : G-II-D-4-b	Sewer and other ventilation lines contain high efficiency particulate air/HEPA filters.					
NIH: G-II-D-4-c	Internal facility appurtenances, such as light fixtures, air ducts, and utility pipes, are arranged to minimize the horizontal surface area on which dust can settle.					
NIH : G-II-D-4-d	Bench tops have seamless surfaces which are impervious to water and resistant to acids, alkalis, organic solvents, and moderate heat.					
NIH: G-II-D-4-e	Laboratory furniture is simple and of sturdy construction; and spaces between benches, cabinets, and equipment are accessible for cleaning.					
	A foot, elbow, or automatically operated hand washing sink is provided near the door of each laboratory room in the facility.					
NIH: G-II-D-4-f						
	If there is a central vacuum system, it does not serve areas outside the facility.					
NIH: G-II-D-4-g						
NIH : G-II-D-4-g	In-line high efficiency particulate air/HEPA filters are placed as near as practicable to each use point or service cock.					

Reference Statement Response Pos No N/A Filtros are installed to permit in place decontamination and replacement. NH: G-II-D-4-g Other liquid and gas services to the facility are protected by devices that prevent back-flow. NH: G-II-D-4-g If water fountains are provided, they are foot operated and are located in the facility conridors outside the laboratory. The water service to the fountain is not connected to the back-flow protected distribution system supplying water to the laboratory areas. NH: G-II-D-4-h Access doors to the laboratory are sef-closing and locisable. NH: G-II-D-4-i Any windows are breakage resistant. NH: G-II-D-4-i Any windows are breakage resistant. NH: G-II-D-4-i Any windows are breakage resistant. A double-doored autoclose is provided for decontaminating materials passing out of the facility. The autoclose door which opens to the area external to the facility is saled to the custer wall and automatically controlled so that the outside coor can only be opened after the autoclose selective sele	Entity Name: 0		Ins	sp. [. Date: January 0, 1900		
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NIH: G-II-D-4-m microorganism with a defined heat susceptibility pattern.		mechanically and biologically by using a recording thermometer and an indicator					
	NIH: G-II-D-4-m	microorganism with a defined heat susceptibility pattern.					

Entity Name: 0		Ins	sp. [Date:	e: January 0, 1900		
Reference	Statement	Response			Comments		
Reference	Statement	Yes	No	N/A	Comments		
NIH : G-II-D-4-m	If liquid wastes from the shower room are decontaminated with chemical disinfectants, the chemical used is of demonstrated efficacy against the target or indicator microorganisms.						
NIH : G-II-D-4-n	An individual supply and exhaust air ventilation system is provided. The system maintains pressure differentials and directional airflow as required to assure flows inward from areas outside of the facility toward areas of highest potential risk within the facility.						
NIH: G-II-D-4-n	Manometers are used to sense pressure differentials between adjacent areas maintained at different pressure levels. If a system malfunctions, the manometers sound an alarm.						
NIH : G-II-D-4-n	The supply and exhaust airflow is interlocked to assure inward (or zero) airflow at all times.						
NIH: G-II-D-4-o	The exhaust air from the facility is filtered through high efficiency particulate air/HEPA filters and discharged to the outside so that it is dispersed away from occupied buildings and air intakes.						
NIH: G-II-D-4-0	Within the facility, the filters are located as near the laboratories as practicable in order to reduce the length of potentially contaminated air ducts.						
NIH: G-II-D-4-0	The filter chambers are designed to allow in situ decontamination before filters are removed and to facilitate certification testing after they are replaced.						
NIH: G-II-D-4-o	Coarse filters and HEPA filters are provided to treat air supplied to the facility in order to increase the lifetime of the exhaust HEPA filters and to protect the supply air system should air pressures become unbalanced in the laboratory.						
NIH : G-II-D-4-p	The treated exhaust air from Class I and II biological safety cabinets may be discharged into the laboratory room environment or the outside through the facility air exhaust system. If exhaust air from Class I or II biological safety cabinets is discharged into the laboratory the cabinets are tested and certified at six-month intervals.						

Entity Name: 0			sp. [Date:	January 0, 1900		
Reference	Statement	Re	espoi	nse	Comments		
Reference	Statement	Yes	No	N/A	Confinents		
NIH : G-II-D-4-p	The exhaust air from Class III biological safety cabinets is discharged, without recirculation through two sets of high efficiency particulate air/HEPA filters in series, via the facility exhaust air system. If the treated exhaust air from any of these cabinets is discharged to the outside through the facility exhaust air system, it is connected to this system in a manner (e.g., thimble unit connection (see Appendix						
	G-III-L, Footnotes and References of Appendix G)) that avoids any interference with the air balance of the cabinets or the facility exhaust air system.						
	A specially designed suit area may be provided in the facility.						
NIH : G-II-D-4-q							
NIH : G-II-D-4-q	Personnel who enter this area shall wear a one-piece positive pressure suit that is ventilated by a life-support system.						
	The life-support system includes alarms and emergency backup breathing air tanks.						
NIH : G-II-D-4-q							
	Entry to this area is through an airlock fitted with airtight doors.						
NIH : G-II-D-4-q							
NIH : G-II-D-4-q	A chemical shower is provided to decontaminate the surface of the suit before the worker exits the area.						
NIH : G-II-D-4-q	The exhaust air from the suit area is filtered by two sets of high efficiency particulate air/HEPA filters installed in series.						
	A duplicate filtration unit, exhaust fan, and an automatically starting emergency power source are provided.						
NIH : G-II-D-4-q							
	The air pressure within the suit area is greater than that of any adjacent area. Emergency lighting and communication systems are provided.						
NIH : G-II-D-4-q							
	All penetrations into the internal shell of the suit are sealed.						
NIH : G-II-D-4-q							
	A double-doored autoclave is provided for decontaminating waste materials to be removed from the suit areas.						
NIH : G-II-D-4-q							

Entity Name:	0	Insp. Date:	January 0, 1900
Reference	Statement	Response Yes No N/A	Comments
	ary and comments:	Yes No N/A	
mspector summ	ary and comments.		
Recommendation	ns:		
Inspector compl	etina checklist:		Date:
	<u> </u>		
Other inspectors	s present:		Date:
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