

Global Action Plan (GAP) Poliovirus Containment Poliovirus-Essential Facility Questionnaire

Your facility has submitted a Certificate of Participation to the U.S. National Authority for Containment (NAC) of Poliovirus and committed to containment of poliovirus (PV) materials in accordance with the World Health Organization (WHO) Containment Certification Scheme (CCS). Poliovirus containment certification in the United States is a multi-step process overseen by the U.S. NAC.

The Poliovirus-Essential Facility (PEF) Questionnaire is used to collect additional information on the poliovirus materials held by your facility, your work activities, and facility features. Facility information for U.S. laboratories retaining poliovirus materials will be maintained by the U.S. NAC but may be shared upon request with regional and international health authorities (Pan American Health Organization (PAHO), WHO) as relevant to WHO Global Action Plan to minimize poliovirus facility-associated risk after type-specific eradication.

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Public reporting burden: CDC estimates the average public reporting burden for this collection of information as 1.5 hours/minutes per response, including the time for reviewing instructions, searching existing data/information sources, gathering and maintaining the data/information needed, and completing and reviewing the collection information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Review Office; 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-XXXXX).

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	•	SECTION 1: PARENT FACILI	TY INFORMATION	
1. Application Date:		2. Containmen	t certificate(s) desired	d:
3. Facility Name:				
4. Office/Dept.:				
5. Facility Address:				
6. Additional Offsite Ad	dress:			
Facility Contacts	7. Name	8. Facility Title	9. Work Phone	10. Work Email
Principal Investigator				
Biosafety officer				
Institution Representative				

11. Facility Key Roles: Individuals with key roles in the biorisk management system have been designated as follows:

Role	Name
Co-investigator	
Senior manager	
Biorisk management advisor	
Scientific manager	
Occupational health professional	
Facility manager	
Security manager	
Emergency Manager	
Lab manager	
Animal care manager	
Biorisk management advisor	
Quality management system professional	



12. Poliovirus Materials* Onsite

iWPV1	iVDPV1	iOPV1	mOPV1	nOPV1
iWPV2	iVDPV2	iOPV2	mOPV2	nOPV2
iWPV3	iVDPV3	iOPV3	mOPV3	nOPV3
piWPV1	piVDPV1	piOPV1	mOPV (1 & 3)	Bivalent nOPV (1 & 3)
piWPV2	piVDPV2	piOPV2	mOPV (1, 2, & 3)	Bivalent nOPV (1, 2, & 3)
piWPV3	piVDPV3	piOPV3		
Other/new poliovir	us strains (e.g., S19)			
Other				

	anov	er vaccine.				
13.	Poliov	virus Strains				
		VirusType		Str	ain	
	Exa	mple: WPV1	Mahoney			
14.	Poliov	rirus funding source	(s):			
			(-).			
15	Justifi	cation for critical na	tional or international function:			
10.	oustin	Cation for Childanna	tional of international function.			
_						
AF	EGUA	RDS				
16.	lmmu	nization/Secondary	safeguards (Pol3 Immunization coverag	e estir	nates):	
		•			,	
17.	Popul	ation and demograp	hic characteristics within a 100 km radio	ıs of P	EF, including any pockets of susceptible indi	viduals:
10		national booth rocui	rements for PV containment areas (che	ماد ماا 4	act captul.	
10.	•	<u> </u>	rements for PV containment areas (che	CK all t	іат арріу).	
	A. Sta		what he are and a		Madhalalanana farananhar	
		PV childhood imm	unization records		Medical clearance for respirator	
		Adult IPV booster	14		Respirator fit test	
		PV proof of immun	•		Tuberculosis skin test	
		Other required imn	nunizations:			
		Other:				

^{*} Prefix of 'i' indicates infectious material whereas 'pi' indicates potentially infectious materials; 'm' indicates monovalent vaccine; 'n' indicates a novel vaccine.



B. Visitors							
☐ PV childhood immunization records		Medical clearance for respirator					
☐ Adult IPV booster		Respirator fit test					
PV proof of immunity		Tuberculosis skin test					
Other required immunizations:							
□ Other:							
19.Environmental/Tertiary safeguards (closed sanitation system with a	at least	secondary or greater treatment of PEF effluents):					
SECURITY SYSTEMS AND PRACTICES							
20. Facility is located on a secure site with perimeter control (e.g., per	rimetei	fence)					
21. Facility perimeter is subject to constant monitoring (e.g., through $\boldsymbol{\iota}$	use of	alarms, security personnel) \Box					
22. Facility ensures two-person system with second individual within t	the cor	ntainment perimeter or in close					
proximity during PV work 23. Facility building(s) are equipped with intrusion detection system w	horo E	DV containment areas are located					
24. Facility building(s) are equipped with video surveillance where PV							
 Facility has a security plan or procedure that identifies appropriate by risk assessment 	e secui	rity controls for PV as determined					
26. Facility has defined and implemented a personnel reliability policy							
26a. Personnel reliability policy requires verification of referer	nces						
26b. Personnel reliability policy requires verification of crimina	al histo	ory					
26c. Personnel reliability policy requires verification of educat							
27. Visitor Identification Required							
BIORISK MANAGEMENT SYSTEM							
28. Management systems and practices, regulations, or standards im	nlomo	oted for DV work					
	•						
☐ Clinical Laboratory Improvement Amendments (CLIA)		Good Laboratory Practice (GLP)					
☐ International Standardards Organization (ISO) ☐ Good Microbiological Practice (GMP)							
Quality Management System (QMS) (if selected, briefly describe):							
□ Oth on							
□ Other:							
29. Management review process and frequency for PEF:							
30. Internal audit process and frequency for PEF:							
The second and inequality for the second sec							



31.	1. Risk assessment process for PV work and PEF site (e.g., facility, security, emergency response):										
32.	PV w	ork has been reviewed by institutional b	oiosafe	ety committee o	or equi	valent:			☐ Yes	☐ No	□ N/A
22	D\/ a.	والمعارب المصاد ومما ومما والمساد	اممدنا.		ممامم		، مام، ش	. 1.	□Yes	□No	□ N/A
აა.	Pvai	nimal work has been reviewed by institu	illonai	animai care ar	ia use	committee or eq	uivaiei	II	□ 163		
34.	Notifi	cation and coordination with state and l	ocal a	gencies that su	upport (emergency respo	onse p	lans fo	r the PEF:		
GAI	P ELI	EMENTS									
٥.	100/0	20 5 111 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		040 1 1	/ 1	1 110 (1)					
35.	ICC/C	CC Facility: Indicate PEF processes alig	ned to	GAP element	s (che	ck all that apply):					
	A. L	aboratory processes									
		Planning		Equipment				Shipp			
		Purchasing		Testing		_			ntaminatio		
		Personnel		•	rance/(Quality Control		Mana	gement R	eview	
		Facilities		Inventory							
		Other:									
	D C	upport processes									
	В. Э	Support processes		Occupational	Lloolth			Maint			
		Quality Managment System (QMS) Environmental Health and Safety		Occupational Security	пеаш	1			enance	anline	
		Training		Emergency R) Ocnon	50		Conti	actors/Sup	opiles	
		Other:		Lineigency is	(espoi	36					
		Othor.									
35.	ICC/C	CC Facility: Facility has identified nonco	nformi	ities to the follo	wing G	SAP element(s) th	nat will	be res	olved duri	ng an inter	im
	certifi	cate of containment (ICC-NCs)?								□ Yes	☐ No
	If yes	, check all that apply:									
		Element 1 - Biorisk Management Syste	em			Element 8 - Fac	cility P	hysical	Requirem	ents	
		·					•	•	·		
		Element 2 - Risk Assessment and Cor	ntrol		☐ Element 9 - Equipment & Maintenance						
						·	•				
		Element 3 - Worker Health Programme	9			Element 10 - Po	olioviru	ıs Inver	ntory & Inf	ormation	
									,		
		Element 4 - Competency/Training				Element 11 - W	aste N	Ignt, D	econ, Disi	nfect, & Ste	erilize
		3						3 -7	,		-
		Element 5 - Good Microbiological Prac	tice F	Procedure		Element 12 - Tr	anspo	rt Proc	edures		
		Ç					•				
		Element 6 - Clothing & Personal Protection	ctive E	Equipment		Element 13 - Er	mer Re	espons	e & Contin	igency Plar	nning
		-		-				•		- •	•
		Element 7 - Security				Element 14 - Ad	cciden	t/Incide	nt Investio	ation	
		·								•	



SECTION 2: LABORATORY/STORAGE AREA INFORMATION

Information regarding laboratory and storage areas including infrastructure and operation management. If more than one area was declared, information is displayed for each.

Loca	tion 1 Buildin	g: Room:			
1. (Campus:				
1a.	Room Use:			Lab space] Storage
1b.	Dedicated space:				Yes No
1c.	Location used during	what phase of CCS?	(CP Only/ICC/CC)		
	_	•			
10.	PV materials used in	•	10014	0.57.4	0.01/4
	iWPV1	iVDPV1	iOPV1	mOPV1	nOPV1
	iWPV2	iVDPV2	iOPV2	mOPV2	nOPV2
	iWPV3 piWPV1	iVDPV3 piVDPV1	iOPV3 piOPV1	mOPV3 mOPV (1 & 3)	nOPV3 Bivalent nOPV (1 & 3)
	piWPV2	piVDPV2	piOPV2	mOPV (1, 2, & 3)	Bivalent nOPV (1, 2, & 3)
	piWPV3	piVDPV3	piOPV3	11101 V (1, 2, & 0)	Divalent flor v (1, 2, & 0)
	•	ovirus strains (e.g., S19	· '		
	Other	, , , , , , , , , , , , , , , , , , ,	•)		
3. F 4. F 5. T 6. C 7. N 8. N	Total area of the suite Designated safety leve Number of rooms in the	novation date: Item renovations since Iroom (sq ft): Item for the PV containment	ent area (e.g., BSL-2, A/BS poliovirus material:	SL-3):	
			luals entering containment		□ Voo □ No
11.	•				
	limited to: sink, showe	r, autoclave, BSC includi	ing type (e.g., Class II, Type i	and/or egress for personnel, locat A2; Class III). Note, for equipment or plan showing location of equipm	
12. F	PV laboratory persona	al protective equipmen	t (PPE):		
	☐ Gloves		☐ Scrubs	☐ Eye/face protection	☐ Dedicated lab shoes
	☐ Disposable w	rap-around gown	☐ Safety glasses	☐ Respirator	☐ PAPR



Reference Feature Area 14. 8.3.2 Facilities are poliovirus dedicated laboratories, OR 15. 8.3.2 Facilities are non-dedicated laboratories. Non-dedicated facilities must demonstrate effective segregation and decontamination procedures between work with poliovirus and other pathogens to prevent cross-contamination. 16. 8.3.3 Containment perimeter is sealable for fumigation and with sealed penetrations to prevent uncontrolled outward airflow irrespective of the choice of primary containment. 17. NAC policy Facility is equipped with a single door. 18. NAC policy Facility is equipped with two doors between public areas and PV containment area. 19. 8.3.5 Facility controls entry into the containment perimeter through a double-door personnel airlock. 20. 8.3.5 Features include alarms, interlocking doors or an equivalent system to ensure that more than one door cannot be opened at a time. 21. 8.3.5 Anterooms and airlocks are within the containment perimeter and sealable for fumigation. 22. 8.3.6 Containment area marked with biohazard signs 23. 8.3.8 Facility controls exit from containment perimeter with appropriate steps to prevent exposure to contaminated PPE or personnel (e.g., change area). 24. 8.3.9 Exits are clearly marked. 25. 8.3.15 Containment area equipped with vision panel(s) for visual monitoring of activities Feature Area Comments		☐ Tyvek suit o	or coverall	
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Reference Feature Area	nforma	ntion regarding the	e physical requirements of the facility. If more than one area was declared, information is displayed for ea	nch.
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Feature Area Comments Primary Containment Devices	24.	8.3.9	Exits are clearly marked.	
Reference Feature Area 26. 8.3.4 Containment area equipped with Class II biosafety cabinet(s) 27. 8.3.4 Containment area equipped with fully functional Class III biosafety cabinet(s) or similar isolators. 28. 8.3.15 Containment area has closed systems that have been leak tested and validated (e.g., manufacturing	25.	8.3.15	Containment area equipped with vision panel(s) for visual monitoring of activities	
Reference Feature Area 26. 8.3.4 Containment area equipped with Class II biosafety cabinet(s) 27. 8.3.4 Containment area equipped with fully functional Class III biosafety cabinet(s) or similar isolators. 28. 8.3.15 Containment area has closed systems that have been leak tested and validated (e.g., manufacturing	Featu	re Area Comment	ts	
26. 8.3.4 Containment area equipped with Class II biosafety cabinet(s) 27. 8.3.4 Containment area equipped with fully functional Class III biosafety cabinet(s) or similar isolators. 28. 8.3.15 Containment area has closed systems that have been leak tested and validated (e.g., manufacturing	rimar	y Containment D	Devices Devices	
27. 8.3.4 Containment area equipped with fully functional Class III biosafety cabinet(s) or similar isolators. 28. 8.3.15 Containment area has closed systems that have been leak tested and validated (e.g., manufacturing				
28. 8.3.15 Containment area has closed systems that have been leak tested and validated (e.g., manufacturing	26.	8.3.4	Containment area equipped with Class II biosafety cabinet(s)	
,	27.	8.3.4	Containment area equipped with fully functional Class III biosafety cabinet(s) or similar isolators.	
	28.	8.3.15	·	



Primary Containment Devices

	Reference	Feature Area	
29.	8.3.16	Containment area equipped with other primary containment devices (e.g., flexible film isolators, local exhaust ventilation)	

Feature Area Comments:

Decontamination Systems

	Reference	Feature Area	
30.	8.3.12	Containment area equipped with single door autoclave	
31.	8.3.12	Containment area equipped with a dedicated pass-through autoclave. Autoclave has the following features:	
31a.	8.3.12	• Bioseal	
31b.	8.3.12	• Interlocking doors to prevent opening the clean side prior to cycle completion	
31c.	8.3.12	Sterilization of air discharge	
31d.	8.3.12	Cycle recording mechanisms and alarms	
32.	8.3.12	Containment area equipped with a material airlock/decontamination chamber sealable for fumigation	
33.	8.3.12	Containment area equipped with a dunk tank containing sufficient active compound to inactivate poliovirus	
34.	NAC policy	Facility uses a tissue digester to dispose of PV animal waste (if applicable)	
35.	NAC policy	Facility uses an incinerator to dispose of biohazardous waste	
Feature	e Area Commen	nts:	

HVAC Systems

	Reference	Feature Area	
36.	8.3.10	Controlled air system maintains inward directional airflow.	
36a.	NAC policy	• Visual monitoring device, which confirms directional airflow, provided at the laboratory entry	
37.	8.3.10	Ventilation system features:	
37a.	8.3.10	Exhaust air is HEPA filtered	
37b.	8.3.10	Dedicated exhaust for PV area	
37c.	8.3.10	Dedicated supply for PV area	
37d.	8.3.10	• Shared supply for PV area with supply-side HEPA filters directly on containment perimeter	
37e.	8.3.10	Backflow protection on supply air	



HVAC Systems

	Reference	Feature Area	
37f.	8.3.10	Ductwork sealable for fumigation	
37g.	8.3.10	Monitors/alarms to ensure directional airflow can be readily validated	
Feature	Area Comments:		

Sinks and Showers

	Reference	Feature Area	
38.	NAC policy	Containment area equipped with a hand washing sink.	
39.	8.3.7	Containment area equipped with a hands-free or automated hand washing sink.	
40.	8.3.7	Sinks located within and near exit of containment perimeter.	
41.	8.3.8	Containment area equipped with a personnel exit shower.	
42.	8.3.8	Containment area equipped with a personnel walk-through exit shower.	
43.	8.3.8	Containment area equipped with an emergency shower.	
Featur	e Area Commer	nts:	

Effluent Decontamination

	Reference	Feature Area	
44.	8.3.11	All effluents from within the containment perimeter are decontaminated with a validated inactivation procedure (e.g., EDS, chemical treatment of collected laboratory effluents)	
45.	8.3.11	Effluent decontamination includes handwash	
46.	8.3.11	Effluent decontamination includes shower/emergency shower water	
47.	8.3.11	Effluent decontamination includes eyewash	
48.	8.3.11	Effluent decontamination includes unsterilized autoclave condensate	
49.	8.3.11	Backflow prevention is implemented on all liquid services/utilities passing across the polio containment boundary and via measures to prevent release through traps, sinks and shower drains.	
50.	8.3.11	Effluent treatment system is dedicated to PV containment area	
51.	8.3.11	Non-dedicated effluent treatment system has appropriate measures for cross-contamination risk based on risk assessment	
52.	8.3.13	Kill-tank rooms or equivalent meet all construction, sealing, and HVAC requirements of the primary containment space	
53.	8.3.13	Kill-tank rooms or equivalent have an anteroom/personnel airlock for controlled entry	
54.	8.3.13	Kill-tank rooms have appropriate spill risk mitigation measures. Such mitigations include:	



Effluent Decontamination

	Reference	Feature Area	
54a.	8.3.13	• Berms	
54b.	8.3.13	Leak detection systems or alarms	
54c.	8.3.13	Sump pumps	

Feature Area Comments:

Security

Security			
	Reference	Feature Area	
55.	7.1.1	Security controls limit access to PV containment area to only authorized persons	
56.	7.3.1	Authorized persons are in compliance with personnel reliability policies	
57.	NAC policy	Entry door(s) to PV area has a magnetic lock or an UL approved lock and lock cylinder which are rated as burglary resistant	
58.	7.1.1	Locked door uses two-factor access control measure (e.g., card access system with personal access code)	
59.	NAC policy	Lock(s) fail secure and allow egress only	
60.	NAC policy	PV area(s) are enclosed by a permanent barrier from floor to ceiling, with entry doors that can be securely locked	
61.	NAC policy	Material used in the construction of the permanent barrier is of sufficient strength and thickness that it cannot be readily or easily removed, penetrated, or bent	
62.	NAC policy	Walls are permanent construction, floor to ceiling	
63.	7.1.1	Entries into PV containment area are recorded	
63a.	7.1.1	Electronic records (e.g., proximity card system)	
63b.	7.1.1	• Paper records (e.g., sign in log)	
63c.	7.1.1	Closed circuit television or video records	
63d.	7.1.1	• None	
64.	7.1.1	PV containment area equipped with video surveillance	
65.	7.1.1	PV containment area equipped with intrusion detection system	
66.	8.3.9	PV containment perimeter is equipped with emergency exit and/or other perimeter doors (not authorized for employee entrance)	
67.	8.3.9	Emergency exit doors from the containment perimeter are alarmed	
68.	NAC policy	External hardware is removed (or lock cores sealed) on all fire exits and other perimeter doors could provide access to the PV area	



Security

	Reference	Feature Area	
69.	8.3.9	PV containment perimeter is not equipped with emergency exit or other perimeter door(s) that could provide entrance into containment	

Feature Area Comments:

Storage Area

	Reference	Feature Area	
70.	10.5.3	PV material stored outside of the PV containment laboratory under appropriate containment conditions	
71.	10.5.2	PV material stored in dedicated freezer(s)	
72.	10.5.5	PV material storage area has recording and alarm systems to monitor freezers	
73.	10.5.5	PV material storage area equipped with a back-up emergency power source	

Feature Area Comments:



SECTION 3: PRINCIPAL INVESTIGATOR GENERAL WORK

Completed for each principal investigator using or storing PV infectious or potentially infectious materials. If work activities differ by poliovirus type (PV1, PV2, PV3), complete a separate Section 2 to report type-specific work.

PRINCIPAL INV	/ESTIGATOR (PI): [PI	_Name]					PI ID ##
		SECTION 3	a: INFECTIOUS M	ATERIAL (IM)			
1 Material type us	ed or stored:						
	chedule: (Daily, weekly						
	, ,	, quartorry, armadily	, otorago omy,				
 Work activities i ☐ Animal 		☐ Immunology	, accave		☐ Viral pr	onagation	
		0,	specimens into PV	nermissive cells	☐ Viral pi	. •	
_	n production al efficacy assays	J	detection or sequ	•		enetic modificat	ion
	al resistance assays		l extraction method	•	•	oncentration/pu	
☐ Other:	•	Nucleic dole		10	viidi cc	onoonii alion/pa	imodion
	Storage only)	☐ Not applicat	ole				
4. Estimated rout	ine range of PV workir	ng concentrations [in	fectious units/mL]:				
□ ≤10^3	□ 10^4-10^6	□ 10^7-10^9	□ > 10^9	☐ Unknown	□ No	ot applicable for	PIM
5. Estimated rout	ine range of PV workir	ng volumes used:					
≤10ml	☐ 11-100ml	☐ 101-500ml	☐ 501ml-1L	☐ 1-10L	□ >10L	☐ None (S	Storage only)
6. Estimated max	kimum range of PV cor	ncentration used or s	stored [infectious u	nits/ml]:			
7. Materials are re	emoved from the conta	inment laboratory (fo	or any reason)			☐ Yes	□ No
If yes, purpos	se for removal:						
☐ Proce	edures performed in ar	other location outsic	le of containment լ	perimeter			
□ Deco	ntamination						
☐ Trans	sfer to another facility						
☐ Other	r:						
8. Materials inacti	ivated for future work .					☐ Yes	□ No
	ation method(s) and pa					103	
Met	thod		Pa	rameters			
□ Ех	traction						
☐ Fix	ration						
☐ He	eat						
	adiation						
☐ Oti	her						



	SECTION 3b: POTENTIALLY INFECTIOUS MATERIAL (PIM)							
1.	Material type used o	r stored:						
2.	Material use schedul	le: (Daily, weekly,	quarterly, annually,	storage only)				
3.	Work activities included Animal Work Antigen product Antiviral efficient Antiviral resistance Other: None (Storage	duction cacy assays stance assays	☐ Nucleic acid	specimens into PV detection or seque extraction method	encing methods	☐ Viral clo	opagation oning netic modificati ncentration/pur	
4.	Estimated routine ra ☐ ≤10^3	nge of PV working	concentrations [inf	fectious units/mL]:	☐ Unknown	☐ Not	t applicable for	PIM
5.	Estimated routine ra ☐ ≤10ml	nge of PV working ☐ 11-100ml	volumes used:	☐ 501ml-1L	□ 1-10L	□ >10L	☐ None (S	Storage only)
6.	Estimated maximum	range of PV conc	entration used or s	tored [infectious ur	nits/ml]:			
7.	Decontami	removal: s performed in ano	nment laboratory (fo	• ,			☐ Yes	□ No
8.	Materials inactivated If yes, inactivation						☐ Yes	□ No
	Method			Par	ameters			
	☐ Extraction	on						
	☐ Fixation							
	☐ Heat							
	☐ Irradiatio	on						
	☐ Other							



SECTION 3c: PRINCIPAL INVESTIGATOR SPECIES SPECIFIC ANIMAL WORK

Information regarding animal species used in the PI's work plan. Please answer each question; if more than one animal species is used, provide information for each species. Complete section 3 for each poliovirus type if different type-specific (PV1, PV2, PV3) work activities are performed.

SPE	CIES: [SpeciesType]						
1. P\	V type used or stored:						
2. Es	timated frequency of animal work:						
3. Es	stimated routine range of animals used	l in a single experiment:					
4. Co	Class II BSC Glove Box II BSC Downdraft Table Inward Air Flow						
5. Po	pliovirus infected animals housed in a s	separate room from other a	animals:				
6. Ar	. Animal caging method(s) used: ☐ Conventional caging ☐ Ventilated containment caging system ☐ Conventional caging within inward flow ventilated enclosure						
7. Pe	ersonal protective equipment (PPE) wo Gloves Disposable wrap-around gown Tyvek suit or coverall Other:	orn in PV animal laboratory Scrubs Safety Glasses Face or surgical mas	☐ Eye/face protection☐ Respirator	□ Dedicated Lab Shoes□ PAPR			



SECTION 4: VALIDATION

understand that any wi	Ilful misrepresenta	form has been review by me and is, to the best of my knowledge, complete and correction of fact would render[FacilityNantainment Certification Scheme (CCS).	
INSTITUTION REPRESENTATIVE	Printed name:		
NET NEGENTATIVE	Signature:		
	Date:		
BIOSAFETY OFFICER	Printed name:		
OFFICER	Signature:		
	Date:		
PRINCIPAL	Printed name:		
INVESTIGATOR	Signature:		
	Date:		