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SANTA BARBARA • SANTA CRUZ

OFFICE OF RESEARCH UNIVERSITY OF CALIFORNIA, MERCED P.O. BOX 2039, MERCED, CALIFORNIA 95344 (209) 724-4429 FAX: (209) 724-2912

Memorandum to: IO/VCR Sam Traina

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and Inspection of Facilities

Date: June 5th, 2018

This represents the semiannual report of the UC Merced Institutional Animal Care and Use Committee (IACUC) as required by the PHS Policy on Humane Care and Use of Laboratory Animals, as a condition of this institution's Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), and in accordance with USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

The IACUC conducted its semiannual evaluation of the institution's animal care and use program on May 14th, 2018 using the *Guide for the Care and Use of Laboratory Animals* (*Guide*), and, as applicable, 9 CFR Chapter I, 2.31. The IACUC met and jointly went over point by point the program review checklist, deciding what aspects were acceptable and identifying any minor or significant deficiencies.

One (1) minor deficiency and no significant deficiencies in the animal care and use program were identified:

The Animal Care Disaster plan, while written and documented, has not been incorporated into the
campus master plan for disaster mitigation but has been presented to the Dept of Public Safety for
subsequent inclusion in the institutional emergency response plan. The IACUC will continue to
work with police and emergency planning to make sure the vivarium plan is incorporated into the
overall campus master plan.

Minority Views:

No minority views were expressed.

Inspection of Animal Facilities

The IACUC inspected the animal facilities on May 10th, 2018, using the *Guide*, and, as applicable, 9 CFR Chapter I, 2.31.

UC Merced has one vivarium managed by the Laboratory Animal Resource Center (LARC) and located in the
The vivarium is operated as a service unit for faculty using
animals in their research and teaching. It has facilities for housing a variety of small laboratory animal species and
consists of
The IACUC also inspected 3 different faculty labs which house animals for research
purposes, and video inspected a field site located in
the site.

Minor Deficiencies:

Vivairum:

- 1. Electrical outlet covers missing. A work order has been placed and waiting on facilities to replace them.
- 2. expired bottle of saline, but used only in training procedures. IACUC will discuss whether this is allowed at next meeting.
- 3. IACUC wanted to know info regarding maintenance of air filters on racks. Vivarium director indicated that the filters are changes on a regular schedule and are notified that filters require changes by alarm on racks. Additionally, the vivarium keeps new filters on hand regularly for maintenance.
- 4. on May 10th, no one was available to provide access to controlled substances locker, but a subsequent inspection of the locker was done by two IACUC members on May 18th and no deficiencies found.

Significant Deficiencies

None

Minority Views

No minority views were expressed by members of the IACUC.

Signatures

A majority of the members of the IACUC should sign the report:

Names of IACUC Members

Signatures



May 2018

Semiannual Program Review and Facility Inspection Checklist

About the checklist

The Semiannual Program Review and Facility Inspection Checklist is provided to assist institutions in conducting their semiannual reviews of programs and facilities for the care and use of animals. The Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), section IV.B.1.-2., requires the Institutional Animal Care and Use Committee (IACUC) to review the institution's program for humane care and use of animals and inspect all of the institution's animal facilities at least once every 6 months using the Guide for the Care and Use of Laboratory Animals: Eighth Edition (Guide) as a basis for evaluation.

How to use the checklist

This checklist is a tool to assist IACUCs in conducting thorough semiannual reviews. IACUCs are not required to use this checklist but are encouraged to amend it as necessary to reflect institutional programs and needs, or to develop their own checklist. If the checklist is modified, periodic review of the checklist is recommended to ensure relevant topics are considered as the animal care and use program changes.

The checklist covers the major topics of the *Guide* and the requirements of the PHS Policy. The checklist does not replace the *Guide*, but should be utilized in conjunction with the *Guide*. The *Guide* provides the standards, recommendations, and descriptions of desired outcomes necessary to evaluate and inspect an animal care and use program. Relevant references for the *Guide* and the PHS Policy are noted. Endnotes are included to reference specific U.S. Department of Agriculture (USDA) regulatory requirements that differ from the PHS Policy. Topics that are new to this version of the checklist or identified as a "must" in the *Guide* are highlighted. A column to identify changes that have occurred in the institution's program for animal care and use (PHS Policy <u>IV.A.1.a.-i.</u>) since the last review is also a new feature.

The checklist consists of the following sections:

- I. Semiannual Program Review Checklist
 - Institutional Policies and Responsibilities
 - Veterinary Care
- II. Semiannual Facility Inspection Checklist
 - Terrestrial Animal Housing and Support Areas
 - Aquatic Animal Housing and Support Areas
 - Cagewash
 - Special Facilities: Aseptic Surgery
 - Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies
- III. Semiannual Program Review and Facility Inspection Report
- IV. Endnotes

It is recommended that the Program Review section be completed during an IACUC meeting. Because physical aspects of a program require visual observation to evaluate, it is recommended that the Facility Inspection section be completed during an inspection of the facilities, including satellite facilities.

A table is provided, "Semiannual Program Review and Facility Inspection Report," as a format for the IACUC to organize and track information regarding deficiencies, and plans and schedules for correction. IACUCs may choose to attach the table to the Semiannual Report to the Institutional Official.

Questions or comments?

Suggestions or comments about this checklist should be e-mailed to: olawdpe@mail.nih.gov.

I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

Date: 5/14/18

1	Δn	imal Care and Use Program NEW	A *	М	S	C	NA
4.	•	Responsibility for animal well-being is assumed by all members of the program (Guide,					
		p 1) [must]	1		ļ		
-	•	IO has authority to allocate needed resources (Guide, p 13)					
	•	Resources necessary to manage program of veterinary care are provided (<i>Guide</i> , <u>p 14</u>)					
and the second s	•	Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i> , pp 11, 15)					
		Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)				The Committee of the Co	
	•	Responsibilities for daily animal care and facility management are assigned to specific	/				
		individual(s) when a full-time veterinarian is not available on site (Guide, p 14) [must]					
	٠	Inter-institutional collaborations are described in formal written agreements (<i>Guide</i> , p 15)					CANADA CA
	•	Written agreements address responsibilities, animal ownership, and IACUC oversight ($Guide$, p 15)	/				
2	Die	saster Planning and Emergency Preparedness NEW	A *	М	S	C	NA
- C	•	Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p					T
	•	75) [must]		MARKE			
	•	Plans include provisions for euthanasia (Guide, p. 35) [must]					
	•	Plans include triage plans to meet institutional and investigators' needs (Guide, p 35)	/				
	•	Plans define actions to prevent animal injury or death due to HVAC or other failures					
		(Guide, p 35) Plans describe preservation of critical or irreplaceable animals (Guide, p 35)					
-	•	Plans include essential personnel and their training (<i>Guide</i> , <u>p. 35</u>)	//				
-	•	Animal facility plans are approved by the institution and incorporated into overall		1			1
	•	response plan (<i>Guide</i> , p 35)		11			
	•	Law enforcement and emergency personnel are provided a copy and integration with	Marke	1			
	•	overall plan is in place (<i>Guide</i> , p.35)	Ma.				
2	TA	CUC NEW	A *	М	S	C	NA
٥.	-	Meets as necessary to fulfill responsibilities (Guide, p 25) [must]					
-	•	IACUC Members named in protocols or with conflicts recuse themselves from protocol					-
	•	decisions (<i>Guide</i> , p 26) [must]					
	•	Continuing IACUC oversight after initial protocol approval is in place (<i>Guide</i> , p 33)	/				1
	•	IACUC evaluates the effectiveness of training programs (<i>Guide</i> , p 15)		İ			1
L			- 4			_	
4.	IA	CUC Protocol Review - Special Considerations	A*	M	S	C	NA
	•	Humane endpoints are established for studies that involve tumor models, infectious	,				į
		diseases, vaccine challenge, pain modeling, trauma, production of monoclonal	/				
		antibodies, assessment of toxicologic effects, organ or system failure, and models of	/				
		cardiovascular shock (<i>Guide</i> , <u>p 27</u>)	ļ <u>_</u>				ļ
	•	For pilot studies, a system to communicate with the IACUC is in place (Guide, p 28)				ļ	
	• ,	For genetically modified animals, enhanced monitoring and reporting is in place (Guide, p 28)					
	•	Restraint devices are justified in the animal use protocols (Guide, p 29) [must]		1			
	•	Alternatives to physical restraint are considered (<i>Guide</i> , p 29)					1
	•	Period of restraint is the minimum to meet scientific objectives (<i>Guide</i> , p 29)					1
	•	Training of animals to adapt to restraint is provided (<i>Guide</i> , p 29)					
	•	Animals that fail to adapt are removed from study (<i>Guide</i> , p 29)					1
	•	Appropriate observation intervals of restrained animals are provided (<i>Guide</i> , p 29)		1			
	•	Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i> , p 30)	/				
		[must]	/				1

	•	Explanations of purpose and duration of restraint are provided to study personnel	7	1			T
		(Guide, p 30)					
	•	Multiple surgical procedures on a single animal are justified and outcomes evaluated					
	•	(Guide, p 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide,	/_	ļ			ļ
		'p 30)					
	•	Multiple survival procedure justifications in non-regulated species conform to regulated					
		species standards (<i>Guide</i> , <u>p 30</u>)					
	•	Animals on food/fluid restriction are monitored to ensure nutritional needs are met					
-	•	(Guide, p 31) Rody weights for food/fluid restricted enimals are recorded at least weekly (C. i.e.	/		_		-
	•	Body weights for food/fluid restricted animals are recorded at least weekly ($Guide$, p 31)					
-	•	Daily written records are maintained for food/fluid restricted animals (<i>Guide</i> , p 31)					
	•	Pharmaceutical grade chemicals are used , when available, for animal-related					<u> </u>
		procedures (Guide, p 31)					
	•	Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC ($Guide, p 31$)					
	•	Investigators conducting field studies know zoonotic diseases, safety issues, laws and	/				
		regulations applicable in study area (<i>Guide</i> , p 32)					
	•	Disposition plans are considered for species removed from the wild (<i>Guide</i> , p 32) Toe-clipping only used when no alternative, performed aseptically and with pain relief					
		(Guide, p 75)					
	7.4						<u> </u>
Э.		CUC Membership and Functions	A*	M	S	C	NA
		IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.) Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab	/	<i>,</i>			
	•	animal user (Guide, p 24)ii					
		IACUC authority and resources for oversight and evaluation of institution's program			***************************************		
		are provided (<i>Guide</i> , <u>p 14</u>)					
		IACUC conducts semiannual evaluations of institutional animal care and use program					
		(PHS Policy, IV.B.)	/				
	•	Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.) IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)	//				ļ
	•	Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i> , <u>p</u>	//				<u> </u>
		23) must					
	•	Reviews and investigates concerns about animal care and use at institutioniii (PHS	/				
-		Policy, IV.B.)	۷,				
	•	Procedures are in place for review, approval, and suspension of animal activities ^{iv}					
********		(PHS Policy, <u>IV.B.</u>) Procedures are in place for review and approval of significant changes to approved			**************************************		
		activities (PHS Policy, <u>IV.B.</u>)					
	•	Policies are in place for special procedures (e.g., genetically modified animals,					
		restraint, multiple survival surgery, food and fluid regulation, field investigations,		11			
		agricultural animals) (Guide, p 27-32)					
		Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS' (<i>Guide</i> , p 30) must					
				<u>-</u>			
5.		CUC Training NEW	A *	M	S	C	NA
		All IACUC members should receive:					
		Formal orientation to institution's program (Guide, p 17)					-
		 Training on legislation, regulations, guidelines, and policies (Guide, p 17) Training on how to inspect facilities and labs where animal use or housing occurs 					
		(Guide, p 17)					
		o Training on how to review protocols as well as evaluate the program (Guide, p 17)					
		o Ongoing training/education (Guide, p 17)					**************************************
,	TAC	TIC Poserds and Ponerting Post-iromentari					
		CUC Records and Reporting Requirements ^{vi} Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)	A *	M	S	С	NA
		Submitted to IO every 6 months	<u>`</u>	T			
		Compiles program review and facility inspection(s) results (includes all program					
		, , , , , , , , , , , , , , , , , , ,					

					· · · · · · ·		(
		and facility deficiencies)				-	
		o Includes minority IACUC views					
	(Describes IACUC-approved departures from the Guide or PHS Policy and the					i
		reasons for each departure ^{vii}					
		o Distinguishes significant from minor deficiencies					ļ
		o Includes a plan and schedule for correction for each deficiency identified viii			l	,	İ
	•	Reports to OLAW (PHS Policy, <u>IV.F.</u>)	- /				T
		 Annual report to OLAW documents program changes, dates of the semiannual 					
_		program reviews and facility inspections and includes any minority views	/				ļ
		 Promptly advises OLAW of serious/ongoing Guide deviations or PHS Policy 			4		ļ
		noncompliance (NOT-OD-05-034)	/				ļ
		o Institute must promptly advise OLAW of any suspension of an animal activity by	/				Ì
		the IACUC (NOT-OD-05-034)					ļ
	•	Reports to U.S. Department of Agriculture (USDA) or Federal funding agencyix	,		,		T
		 Annual report to USDA contains required information including all 					
		exceptions/exemptions		,			
		 Reporting mechanism to USDA is in place for IACUC-approved exceptions to the 					
		regulations and standards					
		 Reports are filed within 15 days for failures to adhere to timetable for correction of 					
		significant deficiencies		,			
		o Promptly reports suspensions of activities by the IACUC to USDA and any Federal					
		funding agency					
	•	Records (PHS Policy, IV.E.)			,		.,
		o IACUC meeting minutes and semiannual reports to the IO are maintained for 3					
		years					
-		 Records of IACUC reviews of animal activities include all required information^x 					
		o Records of IACUC reviews are maintained for 3 years after the completion of the	/				
		study		-			
-			46		_	_	
8.	Vet	terinary Care (See also next section - Veterinary Care)	A *	M	S	C	NA
	•	An arrangement for veterinarian(s) with training or experience in lab animal medicine					
-		is in place including backup veterinary carexi	1				
	•	Veterinary access to all animals is provided (Guide, p 14) [must]					
		VCCCIIII ai y accesso to aii aiiii i ai ai ai ai ai ai ai ai ai		/	ļ		
	•	Direct or delegated authority is given to the veterinarian to oversee all aspects of		<u></u>			
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9.	•	Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , p 14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (<i>Guide</i> , p 5) [must] Veterinarian provides consultation when interventional control is not possible (<i>Guide</i> , p 5) [must] If part time /consulting veterinarian, visits meet programmatic needs (<i>Guide</i> , p 14) Regular communication occurs between veterinarian and IACUC (<i>Guide</i> , p 14) Veterinarian(s) have experience and training in species used (<i>Guide</i> , p 15) [must] Veterinarian(s) have experience in facility administration/management (<i>Guide</i> , p 15) rsonnel Qualifications and Training All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: [must] Veterinary/other professional staff (<i>Guide</i> , p 15-16) IACUC members (<i>Guide</i> , p 17) Animal care personnel (<i>Guide</i> , p 16) Research investigators, instructors, technicians, trainees, and students (<i>Guide</i> , pp 16-17) Continuing education for program and research staff provided to ensure high quality	A*	M	S	C	NA
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9.	Pe	Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , p 14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (<i>Guide</i> , p 5) [must] Veterinarian provides consultation when interventional control is not possible (<i>Guide</i> , p 5) [must] If part time /consulting veterinarian, visits meet programmatic needs (<i>Guide</i> , p 14) Regular communication occurs between veterinarian and IACUC (<i>Guide</i> , p 14) Veterinarian(s) have experience and training in species used (<i>Guide</i> , p 15) [must] Veterinarian(s) have experience in facility administration/management (<i>Guide</i> , p 15) rsonnel Qualifications and Training All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: [must] Veterinary/other professional staff (<i>Guide</i> , p 15-16) IACUC members (<i>Guide</i> , p 17) Animal care personnel (<i>Guide</i> , p 16) Research investigators, instructors, technicians, trainees, and students (<i>Guide</i> , pp 16-17) Continuing education for program and research staff provided to ensure high quality care and reinforce training (<i>Guide</i> , pp 16-17) Training is available prior to starting animal activity (<i>Guide</i> , p 17) Training is documented (<i>Guide</i> , p 15) Training program content includes: (<i>Guide</i> , p 17) Methods for reporting concerns (<i>Guide</i> , p 17)	A*	M	S	C	NA 4

	pre- and post-operative care, aseptic surgical techniques and euthanasia (<i>Guide</i> , <u>p</u> 17) ^{xiii}					
	 Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, IV.A.1.g.) 		-		W-HHR-V-d-134	
	 Research/testing methods that minimize animal pain or distress (PHS Policy, IV.A.1.q.) 			- M		
AND THE RESIDENCE OF THE PARTY	 Use of hazardous agents, including access to OSHA chemical hazard notices where applicable (Guide, p 20) 					
	o Animal care and use legislation (<i>Guide</i> , p 17)		İ		*******************	
	o IACUC function (Guide, p 17)					
	o Ethics of animal use and Three R's (<i>Guide</i> , <u>p 17</u>)	1	<u> </u>			L
10.	Occupational Health and Safety of Personnel	A *	М	S	C	NA
•	Program is in place and is consistent with federal, state, and local regulations (Guide,	1				
	p 17) [must]					
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)					
•	Changing, washing, and showering facilities are available as appropriate (<i>Guide</i> , p 19)					
•	Hazardous facilities are separated from other areas and identified as limited access (Guide, p 19)					
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal	***************************************				
the street of th	hygiene, special precautions, animal allergies) (Guide, p 20)					
•	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) (<i>Guide</i> , p 20)				A A COMPANY OF THE PARTY OF THE	
•	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place ($Guide$, p 21)					
• '	Personal Protective Equipment for the work area is appropriate and available (<i>Guide</i> , \underline{p} 21)	W.				
•	Program for medical evaluation and preventive medicine for personnel includes:				I	
	o Pre-employment evaluation including health history (<i>Guide</i> , p 22)			T		
	 Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (Guide, p 22) 			***************************************		
	 Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) 		-			
	 Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p 23) 					
	o Promotes early diagnosis of allergies including preexisting conditions (<i>Guide</i> , p 22)					
	 Considers confidentiality and other legal factors as required by federal, state and local regulations (Guide, p 22) [must] 		and the second			
	 If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) [must] 					
•	Waste anesthetic gases are scavenged (<i>Guide</i> , <u>p 21</u>)					
•	Hearing protection is provided in high noise areas (Guide, p 22)					
•	Respiratory protection is available when performing airborne particulate work (<i>Guide</i> , p 22)	1				
•	Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:					NA
	 Tuberculosis screening provided for all exposed personnel (Guide, p 23) 	1				1
	 Training and implementation of procedures for bites, scratches, or injuries associated with macaques (Guide, p 23) 					
	 PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p 21) 					
	 Injuries associated with macaques are carefully evaluated and treatment implemented (Guide, p 23) 					
•	Occupational safety and health of field studies is reviewed by OSH committee or office (Guide, p 32)					
l 1 .		*	N 4			
	Preventive measures in place include pre-employment screening, and physical and IT	A*	M	S	C	NA
	security (Guide, p 23)	1				

12.	Investigating & Reporting Animal Welfare Concerns NEW	A *	M	S	C	NA
•	Methods for investigating and reporting animal welfare concerns are established	ſ				
	(Guide, p 23) [must]					
•	Reported concerns and corrective actions are documented (Guide, p 24)					
•	Mechanisms for reporting concerns are posted in facility and at applicable website with					
	instructions (Guide, p 24)					
	o Includes multiple contacts (Guide, p 24)					
	 Includes anonymity, whistle blower policy, nondiscrimination and reprisal 					
	protection (<i>Guide</i> , <u>p 24</u>)	1			l	

^{*} A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

 \mathbf{C} = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

Veterinary Care

Date:

1.	CI	inical Care and Management NEW	A	*	M	S	C	NA
	•	Veterinary program offers high quality of care and ethical standards (<i>Guide</i> , p 105)	1	1		- -		
	•	Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (<i>Guide</i> , p 106)						
	•	Veterinarian provides oversight to surgery and perioperative care (<i>Guide</i> , p 106)						
-	•	Veterinary care program is appropriate for program requirements (<i>Guide</i> , pp 113-114)						
	•	Veterinarian(s) is familiar with species and use of animals and has access to medical						ļ
_		and experimental treatment records (Guide, p 114)						
	•	Procedures to triage and prioritize incident reports are in place (Guide, p 114)			į			Ĺ
	•	Procedures are in place to address:						
Section 1 to Section	TTL 1787 3177 7880 1777	 Problems with experiments to determine course of treatment in consultation with investigator(Guide, p 114) 						
		 Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114) 	1					
		 Veterinary review and oversight of medical and animal use records (Guide, p 115) 		-				
	•	Procedures established for timely reporting of animal injury, illness, or disease (<i>Guide</i> , p 114) [must]						
	•	Procedures established for veterinary assessment, treatment, or euthanasia (<i>Guide</i> , p 114) [must]					7 771 112 781 71.00	
	•	Veterinarian is authorized to treat, relieve pain, and/or euthanize ($Guide$, p 114) [must]					POPE OF SUCH PROPERTY OF	
2.	An	imal Procurement and Transportation/Preventive Medicine	A*	k	M	S	С	NA
	•	Procedures for lawful animal procurement are in place (Guide, p 106) [must]	/					
	•	Sufficient facilities and expertise are confirmed prior to procurement (Guide, p 106)						
	•	Procurement is linked to IACUC review and approval (Guide, p 106)						
	•	Random source dogs and cats are inspected for identification (Guide, p 106)						
	•	Population status of wildlife species is considered prior to procurement (<i>Guide</i> , p 106)	1					
	•	Appropriate records are maintained on animal acquisition (Guide, p 106)						
	•	Animal vendors are evaluated to meet program needs and quality (Guide, p 106)						
	•	Breeding colonies are based on need and managed to minimize numbers (<i>Guide</i> , \underline{p} 107)						
LACATOR AND S	•	Procedures for compliance with animal transportation regulations, including						
		international requirements, are in place (Guide, p 107) [must]						
******************	•	Transportation is planned to ensure safety, security and minimize risk (<i>Guide</i> , p 107)		1				
	•	Movement of animals is planned to minimize transit time and deliveries are planned to						
		ensure receiving personnel are available (Guide, pp 107- 108)						
	•	Appropriate loading and unloading facilities are available (Guide, p_109)						
	•	Environment at receiving site is appropriate (Guide, p 109)						Markette and
	•	Policies in place on separation by species, source, and health status (<i>Guide</i> , pp 109, 111-112)						
	•	Procedures in place for quarantine to include zoonoses prevention (Guide, p 110)		1			· †	
	•	Quarantined animals from different shipments are handled separately or physically separated (<i>Guide</i> , p 110)						
	•	Procedures in place for stabilization/acclimation (Guide, pp 110-111)						100 Pale addition on
	•	Policies in place for isolation of sick animals (<i>Guide</i> , p 112)						
	•	Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (<i>Guide</i> , p 112)		-				
into el monto con	•	Diagnostic resources are available for preventive health program (<i>Guide</i> , p 112)	1					***************************************
3.		rgery	A *		M	S	C	NA
	•	Surgical outcomes are assessed and corrective changes instituted (Guide, p 115)	4	-				
	•	Researchers have appropriate training to ensure good technique (<i>Guide</i> , <u>p 115</u>) [must]						

	•	Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) (<i>Guide</i> , p 116)	/				
	•	Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified					
		and IACUC approved (Guide, p 116)					
,,,,		Surgical procedures including laparoscopic procedures are categorized as major or minor (<i>Guide</i> , pp 117-118)					
	•	For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean ($Guide$, p 118)	1				
	•	Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119)		i			
		Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (<i>Guide</i> , p 119)					
	•	Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, p. 119)					
		For aquatic species, skin surfaces are kept moist during surgical procedures ($Guide$, p. 119)					
		Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (Guide, pp 119-120)					
1	Dai	n, Distress, Anesthesia and Analgesia	A *	M	S	C	NA
→.	•	Guidelines for assessment and categorization of pain, distress and animal wellbeing					
		are provided during training (<i>Guide</i> , p 121) Selection of analgesics and anesthetics is based on professional veterinary judgment	4				-
	•	(Guide, p 121)					
	•	Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122)					
	•	Nonpharmacologic control of pain is considered as an element of postprocedural care	1			photo of acceptance of a	
	•	(Guide, p 122) Procedures are in place to assure antinoception before surgery begins (Guide, p 122) [must]					
	•	Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide</i> , p 122)					
	•	Special precautions for the use of paralytics are in place to ensure anesthesiaxiv					
		(Guide, p 123)					
E	Em	thanasia	A *	М	S	С	NA
Э.	Eu	Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the		•		Ŭ	
		IACUC (<i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC	1				
	•	that avoid distress and consider animal age and species (Guide, pp 123-124)					
ļ	•	Training is provided on appropriate methods for each species and considers					
		psychological stress to personnel (Guide, p 124)					
	•	Procedures and training are in place to ensure death is confirmed (<i>Guide</i> , <u>p 124</u>)				יין פייט	
6	Dr	ug Storage and Control NEW	A*	М	S	С	NA
0.	•	Program complies with federal regulations for human and veterinary drugs(<i>Guide</i> , p	/			_	
		115) [must] Drug records and storage procedures are reviewed during facility inspections (<i>Guide</i> , p	4				
	•	115)					
	•	Procedures are in place to ensure analgesics and anesthetics are used within expiration date (<i>Guide</i> , p 122) [must]					
	•	Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (<i>Guide</i> , p 122)					
*		acceptable					
	S =	minor deficiency significant deficiency (is or may be a threat to animal health or safety)					
	C =	change in program (PHS Policy <u>IV.A.1.ai.</u>) (include in semiannual report to IO and in annual rep	ort to	OLA	W)		

NOTES:

NA = not applicable

II. Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Date: 5/10/18
Location: 8 5/18/18

L	ocation:	A	1	М	S	C	N/
	animal areas separate from personnel areas (Guide, p 134)		/				
0					*****************		
0							
0							<u> </u>
	onstruction:			i			İ
	corridors (<i>Guide</i> , p 136)	- 2	-				Τ
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0							
R	oom/Cage:		/				
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0							
0							
0							
P	rimary Enclosure:	13.25					
0	space meets physiologic, behavioral xv, and socialxvi needs (Guide, pp 51, 55-63)	1			```		•
0	secure environment provided (<i>Guide</i> , p 51)						
0	durable, nontoxic materials in good repair and no risk of injury (Guide, p 51)						*******
0	flooring is safe and appropriate for species (Guide, p 51)						
0	adequate bedding and structures for resting, sleeping, breeding (Guide, p 52)			T			
0				1			
0	procedures for routine husbandry are documented (Guide, p 52)						
0	socially housed animals can escape or hide to avoid aggression (Guide, p 55)	1					
0		- 1					-
0	animals express natural postures, can turn around, access food and water, and	1					
	rest away from urine and feces (Guide, p 56) [must]				İ		
0	rationalexvil for Guide/USDA space exceptions approved by IACUC and based on	-					
_	performance indices (<i>Guide</i> , p 56)					1	
0		- 11	-+	-			
0	nonhuman primates are socially housed except for scientific, veterinary or	-	+				-
Ů	behavior reasons (Guide, pp 58-59)		Ì				
0	single housing of nonhuman primates is for shortest duration possible (<i>Guide</i> , p	1					_
	60)				ĺ		/
0	opportunities for release into larger enclosures is considered for single caged		-				
O	nonhuman primates (<i>Guide</i> , p 60)						
0	agricultural animals are housed socially (<i>Guide</i> , p 60)		+				
0	food troughs and water devices for agricultural animals allow access for all		+				
O	animals (Guide, p 60)				-		
Е.		ļ		i	1.	/	
	nvironmental Enrichment, Behavioral and Social Management:		-				
0	structures and resources promote species typical behavior (<i>Guide</i> , pp 52-54)	1	_				W delicate
0	novelty of enrichment is considered (<i>Guide</i> , p 53)						
0	species specific plans for housing including enrichment, behavior and activity are			1			
	developed and reviewed regularly by IACUC, researchers and veterinarian						
miann	ual Checklist v3/8/2012					C	

		(Guide, pp 53, 58, 60, 63)	Ĵ					
	0	animal care personnel receive training to identify abnormal animal behaviors		Ì				
		(Guide, p 53)					-	1
	0	stability of pairs or groups is monitored for incompatibility (Guide, p 64)		_			AND PROPERTY OF	-
	0	single housing is justified for social species (Guide, p 64)		1				
	0	single housing is limited to the minimum period necessary (Guide, p 64)						
	0	additional enrichment for single housed animals is provided (Guide, p 64)					at assumetheld as	
	0	single housing is reviewed regularly by IACUC and veterinarian (Guide, p 64)	ì					
	0	habituation to routine procedures is part of enrichment program (Guide, p 64)			į			1
•		eltered or Outdoor Housing: (e.g., barns, corrals, pastures, islands)						
	0	weather protection and opportunity for retreat (Guide, p 54) [must]						
.,	0	appropriate size (Guide, p 54)						
	0	ventilation and sanitation of shelter (no waste/moisture build-up) (Guide, p 54)						
	0	animal acclimation (Guide, p 55)						1
	0	social compatibility (<i>Guide</i> , p 55)						
	0	roundup/restraint procedures (<i>Guide</i> , p <u>55</u>)						
	0	appropriate security (Guide, p 55)						
•		turalistic Environments:						
	0	animals added /removed with consideration of effect on group (Guide, p 55)						
*	0	adequate food, fresh water, and shelter ensured (Guide, p 55)	- \					
•		od:						
	0	feeding schedule and procedures including caloric intake management (Guide, pp					İ	
		65-67)	1					
	0	contamination prevention (<i>Guide</i> , p 65)		-				
	0	vendor quality control (Guide, p 66)				.,	1	
	0	storage in sealed containers (Guide, p 66)						
	0	expiration date labeling (Guide, p 66)						
	0	vermin control (Guide, p 66)	1					
	0	rotation of stocks (<i>Guide</i> , p 66)					<u> </u>	
•		nter:	1					
	0	ad libitum unless justified (Guide, pp 67-68)						
	0	QC procedures (Guide, pp 67-68)					<u> </u>	
•		dding and Nesting Materials:						
	0	species appropriate (Guide, pp 68-69)	1					
	0	keeps animals dry (Guide, pp 68-69)	1					
	0	QC procedures (Guide, pp 68-69)		-				
	0	minimizes scientific variables (Guide, pp 68-69)						1
•	Sa	nitation:	\			,		-,
	0	frequency of bedding/substrate change (Guide, p 70)						
	0	cleaning and disinfection of microenvironment (Guide, pp 70-71)						ļ
	0	cleaning and disinfection of macroenvironment (Guide, p 72)					-	
	0	assessing effectiveness (Guide, p 73)				<u> </u>	<u> </u>	1
•	W	aste Disposal:						
	0	procedures for collection (Guide, pp 73-74)	1	<u> </u>				
	0	procedures for storage and disposal (Guide, pp 73-74)		-			ļ	-
	0	hazardous wastes are rendered safe before removal from facility (Guide, pp 73-						
		74) [must]						-
	0	animal carcasses (Guide, pp 73-74)				<u></u>]	
•	Pe	st Control:					ļ	
	0	regularly scheduled (<i>Guide</i> , p 74)	-{				-	
	0	documented program including control of rodent pests and insecticide use	1					
		(Guide, p 74)	1			L		
		nergency, Weekend, and Holiday Animal Care:	T			\	1	T
ļ	0	care provided by qualified personnel every day (<i>Guide</i> , p.74)		-				1
	0	provision for accessible contact information (<i>Guide</i> , p.74)	-	7		ļ	-	
	0	monitoring of backup systems (<i>Guide</i> , p. 143)		-			1	1
	0	veterinary care available after hours, weekends, and holidays (Guide, pp 74,						
		114) [must]				1		ļ
		a disaster plan that takes into account both personnel and animals (Guide, p 75)	1 1	1			1	j i

•	Identification:	
	o cage/rack cards contain required information (Guide, p 75)	/
	 genotype information included and standardized nomenclature used when applicable (Guide, p 75) 	
•	Recordkeeping:	
	o clinical records accessible and contain appropriate information (Guide, pp 75-76)	
	records are provided when animals are transferred between institutions (<i>Guide</i> , p. 75)	
•	Breeding Genetics and Nomenclature:	
	appropriate genetic records, management and monitoring procedures (<i>Guide</i> , \underline{p} $\underline{76}$)	
	 phenotypes that affect wellbeing are reported to IACUC and effectively managed (Guide, p 77) 	
•	Storage:	
	adequate space for equipment, supplies, food, bedding and refuse (Guide, p 141)	
	bedding in vermin-free area and protected from contamination(Guide, p 141)	
	food in vermin-free, temperature and humidity controlled area and protected	
	from contamination (<i>Guide</i> , p 141)	
	refuse storage is separate (Guide, p 141)	
* *	carcass and animal tissue storage is separate, refrigerated below 7°C and	
	cleanable (Guide, p 141)	
•	Personnel:	
	adequate space for locker rooms, administration and training (Guide, p 135)	
_		the same of the sa

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Aquatic Animal Housing and Support Areas NEW

Date: Location:

		A*	М	S	С	IN
	ocation:	1		1		T
. 0	animal areas separate from personnel areas (Guide, p 134)					+
0	separation of species (<i>Guide</i> , p 111)		 	L		-
0	separation by disease status (Guide, p 111)				<u> </u>	-
0	AND THE PROPERTY OF THE PROPER			<u> </u>	L	1
• C	onstruction:	-1	-	T		7-
0	The second secon			1		-
0	animal room doors (<i>Guide</i> , <u>pp 137</u> , <u>150</u>)	1				-
0	exterior windows (<i>Guide</i> , <u>p 137</u>)	11		ļ	ļ	
0	floors (<i>Guide</i> , pp 137, 150)					-
0	drainage (<i>Guide</i> , <u>pp 138, 150</u>)	_		ļ	ļ	. _
0	walls and ceilings (Guide, pp 138, 150)					
0	heating ventilation and air conditioning (Guide, pp 139, 150-151)					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		1		T
0	The same of the sa					1
0				-		+
0			- i	1		t
0		-1			1	1_
• V	Vater Quality:		I	<u> </u>	1	Т
0	standards for acceptable quality are established (Guide, p 78)	+-1				+
0						-
	neutralized prior to use in aquatic systems (Guide, pp78, 86) [must]	1		<u> </u>		1
• L	ife Support System:	-	1	T		
0	water source is based on appropriate controls and research requirements (Guide,	. '\				
	p 79)					
0	biofilter is of sufficient size to process bioload (Guide, p 80) [must]					ĺ
. T	emperature, Humidity and Ventilation/Illumination/Noise and Vibration:					
0	1		VI.		Ì	
	and the second size explicitly (Cuide pp. 45, 91)					
0	The second secon		-11			-
0			-	1	1	-
0		<u> </u>		<u> </u>		1
• F	rimary Enclosure:					
0		-		ļ	ļ	4.
0		_	1	ļ		-
0			\	ļ		1
0	provides appropriate water quality and monitoring (Guide, p 82)	ļ	1			_
C	allows access to food and waste removal (Guide, p 82)	_		1		_ _
C	ability and anticomposit (Cuido in 93)				<u> </u>	
C	II with the delan series (Cuido p. 92)					
C	and the standard of an abovia mentarials (Cuido a 02)	-	1			
C	La de de la desta de la compansa (Cuido en 92)		//			
	the formation and hydrod by TACHC during program evaluations and					100000
	facility inspections (Guide, p 83)					ĺ
• F	invironmental Enrichment, Social Housing, Behavioral and Social Manageme	ent:				
C	and is safe (Guide appropriate behaviors and is safe (Guide n 83)			Ī		-
	and a susting reptiles are provided torrectrial areas (Guide n. 83)					
	I will a label to a minimum and appropriate techniques are in place at facility			1		Ī
C	or protocol level (<i>Guide</i> , p.84)					
	nets are cleaned, disinfected and managed to avoid contamination of systems		1			
			1			
	(Guide, p 84)		. [.]			
. <u>.</u> !	Food:	n /	/	- i		
_	storage to prevent contamination, preserve nutrients and prevent pests (Guide,	된 /			_i	12

	84)	
0	delivery ensures access to all , minimizing aggression and nutrient loss (Guide, p	
	84)	
0	storage times are based on manufacturer recommendations or accepted practice (Guide, p 84)	
0	a nutritionally complete diet is provided (<i>Guide</i> , p 84)	
Su	bstrate:	
0	amount, type and presentation of substrate is appropriate for the system and the species (<i>Guide</i> , p 85)	
Sa	nitation, Cleaning and Disinfection	
0	frequency of tank/cage cleaning and disinfection is determined by water quality,	T
	permits adequate viewing and health monitoring (<i>Guide</i> , p 86)	
0_	cleaning and disinfection of macroenvironment (Guide, p 86)	
Wa	aste Disposal:	
0	procedures for collection (<i>Guide</i> , pp 73-74)	
0	hazardous wastes are rendered safe before removal from facility (<i>Guide</i> , pp 73-74) [must]	
0	animal carcasses (Guide, pp 73-74)	-
	st Control:	
0	regularly scheduled (Guide, p 74)	
	documented program including control of pests and insecticide use (Guide, p 74)	-
Em	nergency, Weekend, and Holiday Animal Care:	
0	care provided by qualified personnel every day (Guide, pp 74, 87)	
0	provision for accessible contact information (Guide, pp 74, 87)	
0	emergency response plans in place to address major system failures (Guide, 87)	1
	veterinary care available after hours, weekends, and holidays (<i>Guide</i> , pp 74, 114)	-
	[must]	
Id€	entification:	
0	cage/tank cards contain required information (Guide, pp 75, 87)	
0	genotype information included and standardized nomenclature used when	
	applicable (Guide, pp 75, 87)	ı
Re	cordkeeping:	
0	water quality parameters and frequency of testing recorded (Guide, p 88)	
0	records kept on feeding, nonexpired food supplies, live cultures (Guide, p 88)	
	prage:	1
0	adequate space for equipment, supplies, food, substrate and refuse (Guide, p	
	141)	
0	substrate protected from contamination (<i>Guide</i> , p 141)	
0	food in vermin-free, temperature and humidity controlled area and protected	1
	from contamination (<i>Guide</i> , <u>p 141</u>)	
	refuse storage is separate (<i>Guide</i> , <u>p 141</u>)	
	carcass and animal tissue storage is separate, refrigerated below 7°C and	T
0	cleanable (<i>Guide</i> , p 141)	

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 NA = not applicable

Cagewash

Date: Location:

		A [*]	M	S	С	NA
	Construction and Operation:					
C	dedicated central area for sanitizing cages and equipment is provided (<i>Guide</i> , <u>p</u> 143)	1				
C	cage-washing equipment meets need (Guide, p 143)	1. 1				
C	doors, windows, floors, drainage, walls, ceilings (Guide, pp 136-138)					
C	convenient to animal areas/waste disposal (Guide, p 143)					·
C						
C			-			
	safety precautions/clothing/equipment used for waste disposal/prewash/acid wash ((Guide, p 143)					
C	traffic flow clean to dirty with no contamination of clean equipment by dirty equipment and appropriate air pressurization (<i>Guide</i> , p 143)				-	
	insulation and/or sound attenuation present as needed (Guide, p 143)		1			
	utilities are appropriate (<i>Guide</i> , <u>p 143</u>)					
	ventilation meets heat and humidity load (Guide, p 143)	<u>i </u>				
	safety features (e.g., SOPs, warning signs, eyewash stations) are in use (<i>Guide</i> , p 143)					
	functioning safety devices to prevent entrapment in washer/sterilizers (<i>Guide</i> , p 143)					
	cage wash temperatures are monitored and records are available (Guide, p 73)			1		
(appropriate clean cage storage (<i>Guide</i> , p 141)		L			<u></u>

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NA = not applicable

Special Facilities: Aseptic Surgery

Date: Location:

		\mathbf{A}^*	M	S	C	NA
•	General Considerations:					
	o location minimizes traffic/contamination (Guide, p 144)	/				
	o functional components (surgical support, animal preparation, surgeon scrub,	/				
	operating room, postoperative recovery) are designed and separated (physically					
	or otherwise) (<i>Guide</i> , <u>p 144</u>)		***********			
	o appropriate drug storage, control, expiration date monitoring (Guide, pp 115,					
	122)	//	~			
	o safe sharps disposal system (<i>Guide</i> , <u>p</u> 74)					
	 adequate records of anesthesia and perioperative care (Guide, p 122) 	4				
	o aseptic procedures in use for all survival surgery (<i>Guide</i> , pp 118-119)					
•	Operating Room:	.,				
	o effective contamination control procedures (<i>Guide</i> , <u>p 144</u>)		7 8000 0000			
ļ	o effective cleaning procedures/dedicated tools (<i>Guide</i> , <u>p 145</u>)					
	o interior surfaces smooth and impervious to moisture (Guide, p 145)					
	 HVAC system meets Guide requirements (Guide, p 145) 					
	o lighting safe and appropriate (<i>Guide</i> , <u>p 145</u>)					
	o outlets safe and appropriate (Guide, p 145)					
	 scavenging of anesthetic gases implemented (Guide, p 145) 			i		
•	Surgical Support:					
	 facility for washing, sterilizing, storing instruments and supplies (Guide, p 145) 					
-	o autoclave monitoring procedures are implemented (Guide, pp 119, 145)	84				
	 storage of autoclaved materials maintains sterility (Guide, p 145) 					
j	o cold sterilization procedures are appropriate (Guide, p 119)					
•	Animal Preparation: contains large sink to facilitate cleaning of animal and					
	operative site (<i>Guide</i> , <u>p 145</u>)					
	Surgeon Scrub: outside operating room, non-hand-operated sink (Guide, p 145)				i	
•	Postoperative Recovery: allows adequate observation, easily cleaned, supports					
	physiologic functions, minimizes risk of injury (Guide, p 145)			and the same of	ĺ	
•	Dressing Area: place for personnel to change (<i>Guide</i> , p 145)					***************************************

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Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies

Date:	labs
Location:	1940>

		\mathbf{A}^*	M	S	C	NA
Ge	neral Considerations:	1				
0	labs used to house animals only when scientifically required and limited to	1				
	minimum period necessary (Guide, p 134)	1				ļ
0	drug storage, control, and expiration dates (Guide, pp 115, 122)	1				ļ
0	sharps disposal (<i>Guide</i> , <u>p 74</u>)					ļ
0	anesthetic monitoring (Guide, p 120)					ļ
0	scavenging of anesthetic gases (Guide, p 21)		<u> </u>			ļ
0	safety features (e.g., SOPs, safety signs, eyewash stations, secure gas cylinders)					
	are in place (Guide, p 19)					
0	carcass disposal (<i>Guide</i> , pp 73-74)		1			İ
Ad	ditional Concerns for Survival Surgery: (rodent and minor procedures only)					
0	rodent survival surgery clean and uncluttered, not used for anything else during				and the same of th	
	surgery (Guide, p 144)					
0	records of peri-operative care (Guide, p 120)					
0	aseptic procedures (Guide, pp 118-119)			İ		
0	autoclave monitoring procedures (Guide, pp 119, 145)					
0	storage of autoclaved materials (Guide, p 145)					
0	cold sterilization procedures are appropriate (Guide, p 119)		1			<u> </u>
Im	aging/Whole Body Irradiation: NEW					
0	location of resource limits contamination risk (Guide, p 147)					
0	appropriate transportation methods are in place (Guide, p 147)					
0	gas anesthesia provision, scavenging and monitoring are appropriate (Guide, p					
	147)					
0	appropriate sensors and ventilation are provided for cryogen gases (Guide, p		1			
	147) [must]					<u>. </u>
0	imaging console is located away from radiation source (Guide, p 147)				<u> </u>	
На	zardous Agent Containment: NEW	1				
0	facility adheres to APHIS, USDA and CDC Select Agent Regulations and other					
_	federal, state and local regulations including security measures (Guide, p 148)					
	[must]					
Be	havioral Studies: NEW					
0	facility minimizes airborne transmission of noise and ground-borne transmission					
Ů	of vibration (<i>Guide</i> , p 149)					
0	floor coverings reduce sound transmission (<i>Guide</i> , p 149)					-
0	testing equipment allows for surface disinfection (<i>Guide</i> , p 150)		1			
0	components that cannot be cleaned are not in ready contact with animals and					1
	kept covered when not in use (<i>Guide</i> , p 150)	Mi				
	housing areas are contiguous with testing areas when appropriate (<i>Guide</i> , p 150)				1	1

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SANTA BARBARA · SANTA CRUZ

OFFICE OF RESEARCH & ECONOMIC DEV UNIVERSITY OF CALIFORNIA, MERCED 5200 N. LAKE RD., MERCED, CALIFORNIA 95343 (209) 228-4429 FAX: (209) 228-2912

Memorandum to: VCR Sam Traina

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and Inspection of Facilities

This represents the semiannual report of the UC Merced Institutional Animal Care and Use Committee (IACUC) as required by the PHS Policy on Humane Care and Use of Laboratory Animals, as a condition of this institution's Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), and in accordance with USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

The IACUC conducted its semiannual evaluation of the institution's animal care and use program on November 19, 2018 using the *Guide for the Care and Use of Laboratory Animals, Eighth Edition (The Guide)*, and, as applicable, 9 CFR Chapter I, 2.31.

Minor Deficiencies:

One minor deficiency was identified during the program evaluation. The IACUC became aware that the guidance and policy on the use of toe-clipping were inconsistent with each other.

Minority Views:

No minority views were expressed.

Inspection of Animal Facilities

Members of the IACUC inspected the animal facilities and laboratory space on November 5, 2018.

UC Merc	ed has one vivarium managed by the Department of Animal Research Services (DARS) and located in
the	The vivarium is operated as a service unit for faculty using
animals i	n their research and teaching. It has facilities for housing a variety of small laboratory animal species and
consists of	\mathbf{f}

Minor Deficiencies:

Three Minor Deficiencies were found:

- 1. Vivarium doors Emergency contact information on all doors was outdated. This was corrected.
- Vivarium Capped needles found in various sharps waste containers. Sharps containers were replaced and new signage posted. RAIR control units had yellow service lights. All IV rack filters in facility were replaced as needed.
- There was no label on the feed barrel. This was corrected.

7. The protocol was not posted on the did not match the cage cards. The PI was inform	ne door. This was corrected. The inventory in the cages and of this issue and it was corrected.
8. – Spray bottles of Coverage Plus we	ere not clearly labeled. This was corrected.
9. The feed barrel label did not correlate corrected.	e with the mill date and open date on lids. This was
10. — The garbage can was not covered. "'(paraformaldehyde) bottles were not properly lab them.	Waste flask," ethanol bottles and PFA peled. The PI was notified of these findings and corrected
11. Expired heparin was found in this lab PI had expired heparin in his lab before in May 2	 The PI confirmed disposal of the expired drug. This 2016.
Significant Deficiencies No significant deficiencies were found.	
Minority Views No minority views were expressed by members of the IA	.CUC.
Signatures A majority of the members of the IACUC should sign the	e report:
Names of IACUC Members	Signatures

- Spray bottles of ethanol were not properly labeled. This was corrected.

did not lock the cabinet. The user was contacted and

- Cage cards did not match PI on protocol. This was corrected.

- The last user in the

notified of proper procedures.

4.

5.

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Jack Vevea

Spray bottles of ethanol were not properly labeled. This was corrected. 5. Cage cards did not match PI on protocol. This was corrected. did not lock the cabinet. The user was contacted and The last user in the notified of proper procedures. 7. - The protocol was not posted on the door. This was corrected. The inventory in the cages did not match the cage cards. The PI was informed of this issue and it was corrected. 8. Spray bottles of Coverage Plus were not clearly labeled. This was corrected. - The feed barrel label did not correlate with the mill date and open date on lids. This was corrected. - The garbage can was not covered. "Waste flask," ethanol bottles and PFA (paraformaldehyde) bottles were not properly labeled. The PI was notified of these findings and corrected them. - Expired heparin was found in this lab. The PI confirmed disposal of the expired drug. This 11. PI had expired heparin in his lab before in May 2016. Significant Deficiencies No significant deficiencies were found. Minority Views No minority views were expressed by members of the IACUC. **Signatures** A majority of the members of the IACUC should sign the report: Names of IACUC Members Signatures

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Jack Vevea	
Kate Wasson Clark	

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November 2018

Semiannual Program Review and Facility Inspection Checklist

About the checklist

The Semiannual Program Review and Facility Inspection Checklist is provided to assist institutions in conducting their semiannual reviews of programs and facilities for the care and use of animals. The Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), section IV.B.1.-2., requires the Institutional Animal Care and Use Committee (IACUC) to review the institution's program for humane care and use of animals and inspect all of the institution's animal facilities at least once every 6 months using the Guide for the Care and Use of Laboratory Animals: Eighth Edition (Guide) as a basis for evaluation.

How to use the checklist

This checklist is a tool to assist IACUCs in conducting thorough semiannual reviews. IACUCs are not required to use this checklist but are encouraged to amend it as necessary to reflect institutional programs and needs, or to develop their own checklist. If the checklist is modified, periodic review of the checklist is recommended to ensure relevant topics are considered as the animal care and use program changes.

The checklist covers the major topics of the *Guide* and the requirements of the PHS Policy. The checklist does not replace the *Guide*, but should be utilized in conjunction with the *Guide*. The *Guide* provides the standards, recommendations, and descriptions of desired outcomes necessary to evaluate and inspect an animal care and use program. Relevant references for the *Guide* and the PHS Policy are noted. Endnotes are included to reference specific U.S. Department of Agriculture (USDA) regulatory requirements that differ from the PHS Policy. Topics that are new to this version of the checklist or identified as a "must" in the *Guide* are highlighted. A column to identify changes that have occurred in the institution's program for animal care and use (PHS Policy <u>IV.A.1.a.-i.</u>) since the last review is also a new feature.

The checklist consists of the following sections:

- I. Semiannual Program Review Checklist
 - Institutional Policies and Responsibilities
 - Veterinary Care
- II. Semiannual Facility Inspection Checklist
 - Terrestrial Animal Housing and Support Areas
 - · Aquatic Animal Housing and Support Areas
 - Cagewash
 - · Special Facilities: Aseptic Surgery
 - Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries,
 Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies
- III. Semiannual Program Review and Facility Inspection Report
- IV. Endnotes

It is recommended that the Program Review section be completed during an IACUC meeting. Because physical aspects of a program require visual observation to evaluate, it is recommended that the Facility Inspection section be completed during an inspection of the facilities, including satellite facilities.

A table is provided, "Semiannual Program Review and Facility Inspection Report," as a format for the IACUC to organize and track information regarding deficiencies, and plans and schedules for correction. IACUCs may choose to attach the table to the Semiannual Report to the Institutional Official.

Questions or comments?

Suggestions or comments about this checklist should be e-mailed to: olawdpe@mail.nih.gov.

I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

Da	nte: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
	Animal Care and Use Program NEW	A *	М	s	С	NA
1.	 Responsibility for animal well-being is assumed by all members of the program (Guide, p 1) [must] 	States of Street, or				
	IO has authority to allocate needed resources (Guide, p 13)			a.ar.a.ar.i.i		
	 Resources necessary to manage program of veterinary care are provided (Guide, p 14) 					
	 Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the Guide (Guide, pp 11, 15) 					
	 Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13) 	/,				
	 Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site (Guide, p 14) [must] 	/				
	 Inter-institutional collaborations are described in formal written agreements (Guide, p 15) 	/				. Liene. ne r
	 Written agreements address responsibilities, animal ownership, and IACUC oversight (Guide, p 15) 					
2.	Disaster Planning and Emergency Preparedness NEW	\mathbf{A}^*	М	S	C	NA
	 Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p 75) [must] 	/				
-	Plans include provisions for euthanasia (Guide, p 35) [must]				A STATE OF THE PARTY OF THE PAR	
	 Plans include triage plans to meet institutional and investigators' needs (Guide, p 35) 					
	 Plans define actions to prevent animal injury or death due to HVAC or other failures (Guide, p 35) 					
	 Plans describe preservation of critical or irreplaceable animals (Guide, p 35) 					
	Plans include essential personnel and their training (Guide, p 35)	/_				
-	 Animal facility plans are approved by the institution and incorporated into overall response plan (Guide, p 35) 					
	 Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (Guide, p 35) 	/				
3	IACUC NEW	\mathbf{A}^*	M	S	C	NA
٠.	Meets as necessary to fulfill responsibilities (Guide, p 25) [must]					
	 IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (Guide, p 26) [must] 					
-	 Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33) 	//				
	 IACUC evaluates the effectiveness of training programs (Guide, p 15) 	/_				1
4.	IACUC Protocol Review - Special Considerations	A*	M	S	С	NA
	 Humane endpoints are established for studies that involve tumor models, infectious 	/				
	diseases, vaccine challenge, pain modeling, trauma, production of monoclonal	/				
	antibodies, assessment of toxicologic effects, organ or system failure, and models of cardiovascular shock (<i>Guide</i> , <u>p 27</u>)	/				
	 For pilot studies, a system to communicate with the IACUC is in place (Guide, p 28) 	/			ļ	
	 For genetically modified animals, enhanced monitoring and reporting is in place (Guide, p 28) 					
	Restraint devices are justified in the animal use protocols (Guide, p 29) [must]	//		1		
	Alternatives to physical restraint are considered (Guide, p 29)	//			 	-
	Period of restraint is the minimum to meet scientific objectives (Guide, p 29)	//				ļ
	 Training of animals to adapt to restraint is provided (Guide, p 29) 	//				
_	Animals that fail to adapt are removed from study (Guide, p 29)	//	<u> </u>		-	
	 Appropriate observation intervals of restrained animals are provided (<i>Guide</i>, p 29) Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i>, p 30) 		-	i		

[must]

	•	Explanations of purpose and duration of restraint are provided to study personnel (Guide, p 30)					To compare the second
	•	Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p 30)	/				
	•	Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide</i> , p 30)					
	•	Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , p 30)					
	•	Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p 31)					
	•	Body weights for food/fluid restricted animals are recorded at least weekly (<i>Guide</i> , \underline{p} 31)					
	•	Daily written records are maintained for food/fluid restricted animals (Guide, p 31)	/			T	
domestic.		Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i> , p 31)	/				
		Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (Guide, p 31)					
		Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area ($Guide$, p 32)					
March Street		Disposition plans are considered for species removed from the wild (Guide, p 32)					
	•	Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, p 75)		April			
5.	IA	CUC Membership and Functions	A*	M	S	С	NA
	•	IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)	/		ĺ	1	
	•	Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (Guide, p 24) ⁱⁱ	/				
		IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i> , p 14)					
		IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>)					
-Windows		Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)				-	
		IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)					
		Methods for reporting and investigating animal welfare concerns are in place (Guide, p 23) [must]					
		Reviews and investigates concerns about animal care and use at institution (PHS Policy, IV.B.)	/				
		Procedures are in place for review, approval, and suspension of animal activities (PHS Policy, IV.B.)		g man an an ann an an an an an an an an an			
		Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, <u>IV.B.</u>)					<u> </u>
		Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (<i>Guide</i> , p 27-32)					
		Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS (Guide, p 30) [must]	/				
5.	IAC	CUC Training NEW	A *	М	S	С	NA
	CONTRACTOR - LEGER	All IACUC members should receive:			V.m. r.		451
		o Formal orientation to institution's program (Guide, p 17)	/		1	T	
		o Training on legislation, regulations, guidelines, and policies (<i>Guide</i> , p 17)	/				
		 Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p 17) 	/				
	montheatich	o Training on how to review protocols as well as evaluate the program (Guide, p 17)	/				
		o Ongoing training/education (<i>Guide</i> , p 17)	1	TW Ballacian Income			
	IAC	CUC Records and Reporting Requirements ^{vi}	A *	М	s	С	NA
		Semiannual report to the IO (PHS Policy, IV.B.)	-				
		Submitted to IO every 6 months					
		Compiles program review and facility inspection(s) results (includes all program					
			/			L	

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	-	and facility deficiencies)	/		-		= -
		Includes minority IACUC views	/y				1
		Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the					
		reasons for each departurevii	//				
		o Distinguishes significant from minor deficiencies					
		o Includes a plan and schedule for correction for each deficiency identified	/				
	•	Reports to OLAW (PHS Policy, IV.F.) o Annual report to OLAW documents program changes, dates of the semiannual					
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_ =		program reviews and facility inspections and includes any minority views	/				
		o Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy					
		noncompliance (NOT-OD-05-034)					
		Institute must promptly advise OLAW of any suspension of an animal activity by					
-	-	the IACUC (NOT-OD-05-034)					L
	•	Reports to U.S. Department of Agriculture (USDA) or Federal funding agency ^{ix}	/				-
		Annual report to USDA contains required information including all					1
		exceptions/exemptions	/				
		 Reporting mechanism to USDA is in place for IACUC-approved exceptions to the 					
		regulations and standards	/				
		 Reports are filed within 15 days for failures to adhere to timetable for correction of 					
		significant deficiencies	-				ļ
		 Promptly reports suspensions of activities by the IACUC to USDA and any Federal 					
		funding agency	/		1		1
	•	Records (PHS Policy, IV.E.)	/				Ţ
-		 IACUC meeting minutes and semiannual reports to the IO are maintained for 3 	/)				
		years					-
		o Records of IACUC reviews of animal activities include all required information*					
		o Records of IACUC reviews are maintained for 3 years after the completion of the					
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365	vo	terinary care (See also next section - veteriliary care)	A	M	3	C	NA
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٥.	•	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care ^{xi}		M	3		NA
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Special precautions for personnel who work with popularian primates, their tissues or		
body fluids include:		
Tuberculosis screening provided for all exposed personnel (Guide, p 23)		1
 Training and implementation of procedures for bites, scratches, or injuries associated with macaques (Guide, p 23) 		
PPE is provided including gloves, arm protection, face masks, face shields, or goggles (<i>Guide</i> , p 21)		
 Injuries associated with macaques are carefully evaluated and treatment implemented (Guide, p 23) 		
Occupational safety and health of field studies is reviewed by OSH committee or office (Guide, p 32)	. Fo	E
11. Personnel Security NEW A* M S	С	NA
 Preventive measures in place include pre-employment screening, and physical and IT security (Guide, p 23) 	1	

12.	Investigating & Reporting Animal Welfare Concerns NEW	A*	М	S	С	NA
	Methods for investigating and reporting animal welfare concerns are established	1				
	(Guide, p 23) [must]	/			-	-
•	Reported concerns and corrective actions are documented (Guide, p 24)					
•	Mechanisms for reporting concerns are posted in facility and at applicable website with					
	instructions (Guide, p 24)					1
	o Includes multiple contacts (Guide, p 24)				L	1
	 Includes anonymity, whistle blower policy, nondiscrimination and reprisal 	1				
	protection (<i>Guide</i> , <u>p 24</u>)					

A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)
C = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

Veterinary Care

Date:

1.	CI	inical Care and Management NEW	A*	M	S	C	NA
	•	Veterinary program offers high quality of care and ethical standards (<i>Guide</i> , <u>p. 105</u>)	1		10 Att 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1		
	•	Veterinarian provides guidance to all personnel to ensure appropriate husbandry,		1			
-		handling, treatment, anesthesia, analgesia, and euthanasia (<i>Guide</i> , p 106)		ļ		ļ	
	•	Veterinarian provides oversight to surgery and perioperative care (<i>Guide</i> , p 106)					ļ
ļ	•	Veterinary care program is appropriate for program requirements (<i>Guide</i> , pp 113-114)		<u> </u>			
	•	Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (<i>Guide</i> , p 114)			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
	•	Procedures to triage and prioritize incident reports are in place (Guide, p 114)	_				
	•	Procedures are in place to address:			,	,	
	hellow (1884 et al. 1815)	 Problems with experiments to determine course of treatment in consultation with investigator(Guide, p 114) 					The state of the s
		 Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114) 					
		 Veterinary review and oversight of medical and animal use records (Guide, p 115) 	1		***		ļ
	•	Procedures established for timely reporting of animal injury, illness, or disease (Guide, p 114) [must]					
	•	Procedures established for veterinary assessment, treatment, or euthanasia (Guide, p					
	•	Veterinarian is authorized to treat, relieve pain, and/or euthanize (<i>Guide</i> , <u>p 114</u>)	Į,				
2.	An	imal Procurement and Transportation/Preventive Medicine	A*	М	s	С	NA
	•	Procedures for lawful animal procurement are in place (Guide, p 106) [must]					L
	•	Sufficient facilities and expertise are confirmed prior to procurement (Guide, p 106)				MARTINE LANGE LANGE	į
	•	Procurement is linked to IACUC review and approval (Guide, p 106)					
	•	Random source dogs and cats are inspected for identification (Guide, p 106)					
	•	Population status of wildlife species is considered prior to procurement (<i>Guide</i> , p 106)	1		7 WM-0		
	•	Appropriate records are maintained on animal acquisition (Guide, p 106)					
	•	Animal vendors are evaluated to meet program needs and quality (Guide, p 106)					
	•	Breeding colonies are based on need and managed to minimize numbers (<i>Guide</i> , <u>p</u> 107)					
	•	Procedures for compliance with animal transportation regulations, including					
		international requirements, are in place (Guide, p 107) [must]					ĺ
	•	Transportation is planned to ensure safety, security and minimize risk (Guide, p 107)					
	•	Movement of animals is planned to minimize transit time and deliveries are planned to					
		ensure receiving personnel are available (Guide, pp 107-108)			- 1		
	•	Appropriate loading and unloading facilities are available (Guide, p 109)					
	•	Environment at receiving site is appropriate (Guide, p 109)					
	•	Policies in place on separation by species, source, and health status (<i>Guide</i> , pp 109, 111-112)				1	
	•	Procedures in place for quarantine to include zoonoses prevention (Guide, p 110)					
	•	Quarantined animals from different shipments are handled separately or physically separated (<i>Guide</i> , p 110)	-				THE REAL PROPERTY.
	•	Procedures in place for stabilization/acclimation (Guide, pp 110-111)					
	•	Policies in place for isolation of sick animals (Guide, p 112)		- 1	-		
	•	Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (<i>Guide</i> , p 112)					
	•	Diagnostic resources are available for preventive health program (Guide, p 112)	1		-		
3.	Su		A *	М	S	С	NA
-	•	Surgical outcomes are assessed and corrective changes instituted (Guide, p 115)	1			_	14/4
	•	Researchers have appropriate training to ensure good technique (<i>Guide</i> , p 115) [must]					
			1				

		A TANANT AND A TAN	-1				
		Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) (<i>Guide</i> , p 116)					
	•	Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved (<i>Guide</i> , p 116)					
	•	Surgical procedures including laparoscopic procedures are categorized as major or minor (Guide, pp 117-118)					
		For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean (<i>Guide</i> , p 118)	1		Polit		
	•	Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119)	l				
	•	Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (<i>Guide</i> , p 119)			E AND		
mention 7.7	•	Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, p. 119)					
		For aquatic species, skin surfaces are kept moist during surgical procedures (<i>Guide</i> , <u>p</u> 119)					
	•	Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (<i>Guide</i> , pp 119-120)					1
4.	Pa	in, Distress, Anesthesia and Analgesia	A*	М	S	C	NA
	•	Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (<i>Guide</i> , p. 121)	İ	i			
	•	Selection of analgesics and anesthetics is based on professional veterinary judgment (<i>Guide</i> , p 121)					The state of the s
	•	Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122)					
	•	Nonpharmacologic control of pain is considered as an element of postprocedural care (Guide, p 122)					
	•	Procedures are in place to assure antinoception before surgery begins (<i>Guide</i> , <u>p 122</u>) [must]					
	•	Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide</i> , p 122)					
	•	Special precautions for the use of paralytics are in place to ensure anesthesia ^{xiv} (Guide, p 123)	1				
5.	Eu	thanasia	A*	M	S	C	NA
	•	Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, p 123)					
	•	Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (Guide, pp 123-124)					
	•	Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide</i> , p 124)					
	•	Procedures and training are in place to ensure death is confirmed (Guide, p 124)					
6.	Dr	ug Storage and Control NEW	A*	M	S	С	NA
	•	Program complies with federal regulations for human and veterinary drugs(Guide, p. 115) [must]					
	•	Drug records and storage procedures are reviewed during facility inspections (Guide, p 115)	-100.00				
	٠	Procedures are in place to ensure analgesics and anesthetics are used within expiration date (Guide, p 122) [must]					
	•	Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (<i>Guide</i> , <u>p 122</u>)					
*		= acceptable	1				
	M =	= minor deficiency					
	S =	significant deficiency (is or may be a threat to animal health or safety) change in program (PHS Policy <u>IV.A.1.ai.</u>) (include in semiannual report to IO and in annual rep	ort t	o OL	(WA		
		= change in program (PHS Policy <u>IV.A.1.ai.</u>) (include in Semiannual report to 10 and in annual rep . = not applicable	J. C (,		

Room No. or Area		Findings
		Emergency contact info on all doors needs to be updated
		Capped needles found in various sharps waste containers
	Mouse Room	Protocol PI does not match cage card PI
	Mouse Room	PI protocol first page not found on door
		Several cages on one rack house mice that are not indicated
		on the cage card
		RAIR control unit has yellow service light lit
	Irradiator Room	Irradiator is found unlocked
	Procedure Room	Garbage can not covered
		"Waste flask" within BSC not properly labeled
		Squeeze bottles of ethanol not properly labeled
		PFA (paraformaldehyde) bottle needs to be properly labeled
	Mouse Room	Spray bottles of Coverage Plus not clearly labeled
	Rat Room	Feed barrel label does not correlate to mill date on opened
	Fish Room	Lids on individual tanks have excess waste feed and microbial
	Procedure Room	Bags of expired fish feed found in refrigerator
	Mouse Room	Spray bottles of ethanol not properly labeled
	Quarantine	No label on feed barrel
		RAIR control unit has yellow service light lit
		Injection vials of unopened, expired heparin found in
		No one available
		No significant findings
		No one available
		No significant findings
		No significant findings

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OFFICE OF RESEARCH & ECONOMIC DEV UNIVERSITY OF CALIFORNIA, MERCED 5200 N. LAKE RD., MERCED, CALIFORNIA 95343 (209) 228-4429 FAX: (209) 228-2912

Memorandum to: VCR Sam Traina

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and Inspection of Facilities

This represents the semiannual report of the UC Merced Institutional Animal Care and Use Committee (IACUC) as required by the PHS Policy on Humane Care and Use of Laboratory Animals, as a condition of this institution's Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), and in accordance with USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

The IACUC conducted its semiannual evaluation of the institution's animal care and use program on May 20, 2019 using the *Guide for the Care and Use of Laboratory Animals, Eighth Edition (The Guide)*, and, as applicable, 9 CFR Chapter I, 2.31.

Minor Deficiencies:

One minor deficiency was identified during the program evaluation regarding the backup veterinary care. The MOU with UC Davis for vet care was not completed at the time of the evaluation. The agreement was fully executed on June 5, 2019.

Minority Views:

No minority views were expressed.

Inspection of Animal Facilities

Members of the IACUC inspected the animal facilities and laboratory space on May 6, 2019.

UC Merced has one vivarium managed by the Department of Animal Research Services (DARS) and located in the The vivarium is operated as a service unit for faculty using animals in their research and teaching. It has facilities for housing a variety of small laboratory animal species and consists of

Minor Deficiencies:

One Minor Deficiencies was found:

Vivarium eyewash stations: The eyewash stations in the vivarium were replaced on February 25, 2019.
 These stations have not yet been inspected by PPD&C. The IACUC/IO will send a memo to PPD&C to ensure proper inspection is completed in a timely manner.

Significant Deficiencies

No significant deficiencies were found.

Minority Views

No minority views were expressed by members of the IACUC.

Signatures

A majority of the members of the IACUC should sign the report:

Names of IACUC Members	Signatures
Jack Vevea	MILTERN
Kate Wasson Clark	Mossin Cal

May 2019

Semiannual Program Review and Facility Inspection Checklist

About the checklist

The Semiannual Program Review and Facility Inspection Checklist is provided to assist institutions in conducting their semiannual reviews of programs and facilities for the care and use of animals. The Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), section IV.B.1.-2., requires the Institutional Animal Care and Use Committee (IACUC) to review the institution's program for humane care and use of animals and inspect all of the institution's animal facilities at least once every 6 months using the *Guide for the Care and Use of Laboratory Animals: Eighth Edition* (Guide) as a basis for evaluation.

How to use the checklist

This checklist is a tool to assist IACUCs in conducting thorough semiannual reviews. IACUCs are not required to use this checklist but are encouraged to amend it as necessary to reflect institutional programs and needs, or to develop their own checklist. If the checklist is modified, periodic review of the checklist is recommended to ensure relevant topics are considered as the animal care and use program changes.

The checklist covers the major topics of the *Guide* and the requirements of the PHS Policy. The checklist does not replace the *Guide*, but should be utilized in conjunction with the *Guide*. The *Guide* provides the standards, recommendations, and descriptions of desired outcomes necessary to evaluate and inspect an animal care and use program. Relevant references for the *Guide* and the PHS Policy are noted. Endnotes are included to reference specific U.S. Department of Agriculture (USDA) regulatory requirements that differ from the PHS Policy. Topics that are new to this version of the checklist or identified as a "must" in the *Guide* are highlighted. A column to identify changes that have occurred in the institution's program for animal care and use (PHS Policy <u>IV.A.1.a.-i.</u>) since the last review is also a new feature.

The checklist consists of the following sections:

- I. Semiannual Program Review Checklist
 - Institutional Policies and Responsibilities
 - Veterinary Care
- II. Semiannual Facility Inspection Checklist
 - Terrestrial Animal Housing and Support Areas
 - Aquatic Animal Housing and Support Areas
 - Cagewash
 - Special Facilities: Aseptic Surgery
 - Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies
- III. Semiannual Program Review and Facility Inspection Report
- IV. Endnotes

It is recommended that the Program Review section be completed during an IACUC meeting. Because physical aspects of a program require visual observation to evaluate, it is recommended that the Facility Inspection section be completed during an inspection of the facilities, including satellite facilities.

A table is provided, "Semiannual Program Review and Facility Inspection Report," as a format for the IACUC to organize and track information regarding deficiencies, and plans and schedules for correction. IACUCs may choose to attach the table to the Semiannual Report to the Institutional Official.

Questions or comments?

Suggestions or comments about this checklist should be e-mailed to: olawdpe@mail.nih.gov.

I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

Date:

1.	An	imal Care and Use Program NEW	A*	M	S	C	NA
	•	Responsibility for animal well-being is assumed by all members of the program (Guide, p 1) [must]	1				
and the same of th	•	IO has authority to allocate needed resources (Guide, p 13)					
	•	Resources necessary to manage program of veterinary care are provided (<i>Guide</i> , <u>p 14</u>)	1	į			
	•	Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i> , pp 11, 15)					
	•	Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)				**************************************	
	•	Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site (<i>Guide</i> , p 14) [must]	1				
	•	Inter-institutional collaborations are described in formal written agreements ($Guide, p$ 15)					
	•	Written agreements address responsibilities, animal ownership, and IACUC oversight (Guide, p 15)					
2.	Dis	saster Planning and Emergency Preparedness NEW	A *	М	S	С	NA
	•	Disaster plans for each facility to include satellite locations are in place (<i>Guide</i> , <u>p 35</u> , <u>p 75</u>) [must]					
	•	Plans include provisions for euthanasia (Guide, p. 35) [must]					
	•	Plans include triage plans to meet institutional and investigators' needs (Guide, p 35)					
	•	Plans define actions to prevent animal injury or death due to HVAC or other failures (Guide, p 35)					
	•	Plans describe preservation of critical or irreplaceable animals (Guide, p 35)					-
	•	Plans include essential personnel and their training (Guide, p 35)					
	•	Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i> , p 35)					
	•	Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (<i>Guide</i> , p 35)	1				
3.	IA	CUC NEW	A *	M	S	C	NA
	•	Meets as necessary to fulfill responsibilities (Guide, p 25) [must]					
	•	IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (<i>Guide</i> , p 26) [must]					
	•	Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)					
	•	IACUC evaluates the effectiveness of training programs (Guide, p 15)	1	<u></u>			1
4	TΔ	CUC Protocol Review - Special Considerations	\mathbf{A}^*	M	S	C	NA
	•	Humane endpoints are established for studies that involve tumor models, infectious					
		diseases, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologic effects, organ or system failure, and models of			4		And the second
		cardiovascular shock (<i>Guide</i> , <u>p 27</u>) For pilot studies, a system to communicate with the IACUC is in place (<i>Guide</i> , <u>p 28</u>)		1			1
	•	For genetically modified animals, enhanced monitoring and reporting is in place				-	1
	•	(Guide, p 28)					
	•	Restraint devices are justified in the animal use protocols (<i>Guide</i> , p. 29) [must]			-		-
	•	Alternatives to physical restraint are considered (<i>Guide</i> , p 29) Period of restraint is the minimum to meet scientific objectives (<i>Guide</i> , p 29)	-	1	-		1
	•	Training of animals to adapt to restraint is provided (<i>Guide</i> , p. 29)	-1-	L Company		ļ	-
	•	Animals that fail to adapt are removed from study (Guide, p 29)		-			+
	•	Appropriate observation intervals of restrained animals are provided (<i>Guide</i> , p 29)				-	-
		Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i> , p 30)	-		1	ļ	
	•	must					İ

	•	Explanations of purpose and duration of restraint are provided to study personnel (Guide, p 30)					
	•	Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p 30)			· ·		
	•	Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide</i> , p 30)					
	•	Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , p 30)	1				
	•	Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p 31)			i		
	•	Body weights for food/fluid restricted animals are recorded at least weekly ($Guide$, p 31)					
	•	Daily written records are maintained for food/fluid restricted animals (Guide, p 31)	1				
	•	Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i> , p 31)		-		#1 TO 1 TO 1 TO 1	
	•	Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC ($Guide$, p 31)					
	•	Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area ($Guide$, p 32)					
	•	Disposition plans are considered for species removed from the wild (Guide, p 32)	Ni.				
	•	Toe-clipping only used when no alternative, performed aseptically and with pain relief $(Guide, p.75)$					
5.	IA	CUC Membership and Functions	A	М	S	C	NA
	•	IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)	7	•			117
	•	Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide</i> , p 24) ⁱⁱ	7				
	•	IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i> , p 14)					
	•	IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)					
	•	Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>)					
	•	IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)					
	•	Methods for reporting and investigating animal welfare concerns are in place (Guide, p 23) [must]					
	•	Reviews and investigates concerns about animal care and use at institution (PHS Policy, IV.B.)					
	•	Procedures are in place for review, approval, and suspension of animal activities ^{iv} (PHS Policy, <u>IV.B.</u>)				hatti ataasahaasata	
	•	Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, <u>IV.B.</u>)					
	•	Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (<i>Guide</i> , p 27-32)					
** ***	•	Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS* (<i>Guide</i> , p 30) [must]					
5.	IA	CUC Training NEW	A *	М	S	C	NA
	THE COLOR	All IACUC members should receive:	· ·	MA - 000 mar - 1	ALLEN		
******		o Formal orientation to institution's program (<i>Guide</i> , p 17)	1				
		 Training on legislation, regulations, guidelines, and policies (Guide, p 17) 	1				
		 Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p 17) 					
		 Training on how to review protocols as well as evaluate the program (Guide, p 17) 					
		o Ongoing training/education (<i>Guide</i> , <u>p 17</u>)	Í				
7	TA	CUC Records and Reporting Requirements ^{vi}	A *	N .4			NI A
		Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)	<u> </u>	141	3	<u></u>	NA
	-	Submitted to IO every 6 months	,	T			[
		o Compiles program review and facility inspection(s) results (includes all program	1				

			·		r		
		and facility deficiencies)	1				
		Includes minority IACUC views					
	(Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the	ľ				
		reasons for each departurevii					
		Distinguishes significant from minor deficiencies					
		Includes a plan and schedule for correction for each deficiency identified viii					
		Reports to OLAW (PHS Policy, <u>IV.F.</u>)	1-				i
	•	Annual report to OLAW documents program changes, dates of the semiannual	1				
		program reviews and facility inspections and includes any minority views	1				
		o Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy					
	-	noncompliance (NOT-OD-05-034)					
	,	Institute must promptly advise OLAW of any suspension of an animal activity by	-1				
		the IACUC (NOT-OD-05-034)	-	!			L
ļ		Reports to U.S. Department of Agriculture (USDA) or Federal funding agency ^{ix}	-1				T
		Annual report to USDA contains required information including all	1				
ļ		exceptions/exemptions	-				
		Reporting mechanism to USDA is in place for IACUC-approved exceptions to the					
		regulations and standards Reports are filed within 15 days for failures to adhere to timetable for correction of	-			and the second section is a second second	
			1				
		significant deficiencies o Promptly reports suspensions of activities by the IACUC to USDA and any Federal					
			1				
		funding agency	1-	i			i
		Records (PHS Policy, IV.E.) o IACUC meeting minutes and semiannual reports to the IO are maintained for 3	-				T
			1				
		years Records of IACUC reviews of animal activities include all required information*	-				
		The state of the s		-			
			1				
L		study		-			
R	Vel	terinary Care (See also next section - Veterinary Care)	\mathbf{A}^*	М	S	C	NA
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-		An arrangement for veterinarian(s) with training or experience in lab animal medicine		/			130
	•	An arrangement for veterinarian(s) with training or experience in lab animal medicine		/			NA.
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	Per	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary carexil Veterinary access to all animals is provided (Guide, p_14) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (Guide, p_14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (Guide, p_5) [must] Veterinarian provides consultation when interventional control is not possible (Guide, p_5) [must] To part time /consulting veterinarian, visits meet programmatic needs (Guide, p_14) Regular communication occurs between veterinarian and IACUC (Guide, p_14) Veterinarian(s) have experience and training in species used (Guide, p_15) [must] Veterinarian(s) have experience in facility administration/management (Guide, p_15) [must] Veterinarian(s) have experience in facility administration/management (Guide, p_15) [must] Veterinary animal science. Personnel included: [must] Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, p_16-17) Continuing education for program and research staff provided to ensure high quality care and reinforce training (Guide, p_16-17) Training is available prior to starting animal activity (Guide, p_17) Training is documented (Guide, p_15) Training program content includes: (Guide, p_17) Methods for reporting concerns (Guide, p_17)					

	pre- and post-operative care, aseptic surgical techniques and euthanasia (<i>Guide</i> , \underline{p} 17) xii					
	 Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, IV.A.1.q.) 					
	 Research/testing methods that minimize animal pain or distress (PHS Policy, IV.A.1.g.) 					
	 Use of hazardous agents, including access to OSHA chemical hazard notices where applicable (Guide, p 20) 					
	o Animal care and use legislation (Guide, p 17)	1			1	
	 IACUC function (Guide, p 17) 					
	 Ethics of animal use and Three R's (Guide, p 17) 					1
10.	Occupational Health and Safety of Personnel	A *	М	S	_	NA
•	Program is in place and is consistent with federal, state, and local regulations (Guide,	V				
	p 17) [must]	1	ļ			-
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)					
•	Changing, washing, and showering facilities are available as appropriate (Guide, p 19)		ļ	ļ		
•	Hazardous facilities are separated from other areas and identified as limited access					
	(Guide, p 19)	1		ļ		
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal					
	hygiene, special precautions, animal allergies) (Guide, p 20)			ļ		
	policies) (Guide, p 20)					
•	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place (<i>Guide</i> , p 21)				The state of the s	
•	Personal Protective Equipment for the work area is appropriate and available (<i>Guide</i> , \underline{p} $\underline{21}$)		,			1.
•	Program for medical evaluation and preventive medicine for personnel includes:		1			
	o Pre-employment evaluation including health history (Guide, p 22)				[T
	o Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate	-				†
	(Guide, p 22)	1				
	 Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) 					
	 Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p 23) 					
	o Promotes early diagnosis of allergies including preexisting conditions (<i>Guide</i> , p 22)					<u> </u>
	 Considers confidentiality and other legal factors as required by federal, state and local regulations (Guide, p 22) [must] 			Į	<u></u>	
delimento terbesado; (If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) [must] 				****	
•	Waste anesthetic gases are scavenged (Guide, p 21)					
•	Hearing protection is provided in high noise areas (<i>Guide</i> , p 22)				.1.1/1.1/1	
•	Respiratory protection is available when performing airborne particulate work (Guide,					
	p 22)					
•	Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:					1
	 Tuberculosis screening provided for all exposed personnel (Guide, p 23) 	Т				1
	 Training and implementation of procedures for bites, scratches, or injuries associated with macaques (Guide, p 23) 					
	 PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p 21) 					
	 Injuries associated with macaques are carefully evaluated and treatment implemented (Guide, p 23) 		The state of the s			
•	Occupational safety and health of field studies is reviewed by OSH committee or office $(Guide, p 32)$					
11.	Personnel Security NEW	A *	М	S	C	NA
	Preventive measures in place include pre-employment screening, and physical and IT		171	3	<u> </u>	AFI
	security (Guide, p 23)	$\downarrow \downarrow$				

12.	Investigating & Reporting Animal Welfare Concerns NEW	A*	M	S	C	NA
•	Methods for investigating and reporting animal welfare concerns are established					
	(Guide, p 23) [must]					-
•	Reported concerns and corrective actions are documented (Guide, p 24)				e management of a	
•	Mechanisms for reporting concerns are posted in facility and at applicable website with	1				
	instructions (<i>Guide</i> , <u>p 24</u>)					
	o Includes multiple contacts (Guide, p 24)					ļ : _ j
	 Includes anonymity, whistle blower policy, nondiscrimination and reprisal 					
	protection (<i>Guide</i> , <u>p 24</u>)	L	<u> </u>	İ	L	

^{*} A = acceptable

M = minor deficiency

 $\mathbf{S} = \text{significant deficiency (is or may be a threat to animal health or safety)}$

C = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

Veterinary Care

Date:

1.	Cli	inical Care and Management NEW	A *	M	S	C	NA
	•	Veterinary program offers high quality of care and ethical standards (Guide, p 105)	1				1
		[must]	1	1			
	•	Veterinarian provides guidance to all personnel to ensure appropriate husbandry,	1			1	1
		handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p 106)					
	•	Veterinarian provides oversight to surgery and perioperative care (<i>Guide</i> , p 106)	1	-			1
	•	Veterinary care program is appropriate for program requirements (<i>Guide</i> , pp 113-114)	1	-		 	1
	•	Veterinarian(s) is familiar with species and use of animals and has access to medical					
		and experimental treatment records (Guide, p 114)	1				
	•	Procedures to triage and prioritize incident reports are in place (Guide, p 114)	-		·		-
	•	Procedures are in place to address:	-}	1	-	J	
		Problems with experiments to determine course of treatment in consultation with		T		Ţ _	
		investigator(Guide, p 114)	1				
		Recurrent or significant health problems with the IACUC and documentation of		ļ		<u> </u>	
		treatments and outcomes (<i>Guide</i> , p 114)					
		Veterinary review and oversight of medical and animal use records (<i>Guide</i> , p 115)		<u> </u>			-
	•	Procedures established for timely reporting of animal injury, illness, or disease (<i>Guide</i> ,	+				
	•	p 114) [must]					
	•	Procedures established for veterinary assessment, treatment, or euthanasia (<i>Guide</i> , p					1
		114) [must]					ļ
	•	Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p 114)					
		[must]					
2.	An	imal Procurement and Transportation/Preventive Medicine	A *	M	S	C	NA
	•	Procedures for lawful animal procurement are in place (Guide, p 106) [must]	7		. 3		IVA
	•	Sufficient facilities and expertise are confirmed prior to procurement (<i>Guide</i> , p 106)					ļ
	•	Procurement is linked to IACUC review and approval (<i>Guide</i> , p 106)					
	•	Random source dogs and cats are inspected for identification (<i>Guide</i> , p 106)					
	-		W.				
		Population status of wildlife species is considered prior to procurement (<i>Guide</i> , p 106)	1-	ļ		· · · · · · · · · · · · · · · · · · ·	
	•	Appropriate records are maintained on animal acquisition (<i>Guide</i> , p 106)					
	•	Animal vendors are evaluated to meet program needs and quality (<i>Guide</i> , p 106)					
	•	Breeding colonies are based on need and managed to minimize numbers (<i>Guide</i> , <u>p</u>	1				
		<u>107)</u>					
	•	Procedures for compliance with animal transportation regulations, including	1				
		international requirements, are in place (Guide, p 107) must	1				
	•	Transportation is planned to ensure safety, security and minimize risk (<i>Guide</i> , p 107)	1				
	•	Movement of animals is planned to minimize transit time and deliveries are planned to					
		ensure receiving personnel are available (Guide, pp 107- 108)					
	•	Appropriate loading and unloading facilities are available (Guide, p 109)					
	•	Environment at receiving site is appropriate (Guide, p 109)					
	•	Policies in place on separation by species, source, and health status (<i>Guide</i> , pp 109,					
		<u>111-112</u>)					
	•	Procedures in place for quarantine to include zoonoses prevention (Guide, p 110)					
	•	Quarantined animals from different shipments are handled separately or physically					
		separated (Guide, p 110)					
	•	Procedures in place for stabilization/acclimation (Guide, pp 110-111)					i
	•	Policies in place for isolation of sick animals (Guide, p 112)					
	•	Program is in place for surveillance, diagnosis, treatment and control of disease to		·i			
		include daily observation (<i>Guide</i> , p 112)	1				
		Diagnostic resources are available for preventive health program (Guide, p 112)					
٥.			Α*	M	S	C	NA
	•	Surgical outcomes are assessed and corrective changes instituted (Guide, p 115)	1				
	• .	Researchers have appropriate training to ensure good technique (<i>Guide</i> , <u>p 115</u>)					
		[must]	1				
			1				

			1				
		Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) ($Guide$, p 116)					
	•	Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved (<i>Guide</i> , p 116)					
	•	Surgical procedures including laparoscopic procedures are categorized as major or minor (<i>Guide</i> , pp 117-118)					
	•	For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean (Guide, p 118)					
	•	Aseptic technique is followed for survival surgical procedures (<i>Guide</i> , pp 118-119) Effective procedures for sterilizing instruments and monitoring expiration dates on					
	•	sterile packs are in place (<i>Guide</i> , <u>p 119</u>) Procedures for monitoring surgical anesthesia and analgesia are in place (<i>Guide</i> , <u>p</u> 119)					
	•	For aquatic species, skin surfaces are kept moist during surgical procedures ($Guide$, p 119)					Land and the state of the state
	•	Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (<i>Guide</i> , pp 119-120)				nga garana () angan a	
4	Dai	in, Distress, Anesthesia and Analgesia	A *	M	S	C	NA
	•	Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (Guide, p 121)					
	•	Selection of analgesics and anesthetics is based on professional veterinary judgment (<i>Guide</i> , p 121)		-			
	•	Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122)	-				
	•	Nonpharmacologic control of pain is considered as an element of postprocedural care (<i>Guide</i> , p 122)	.				
	•	Procedures are in place to assure antinoception before surgery begins (<i>Guide</i> , p 122)					
	•	Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide</i> , p 122)					
	•	Special precautions for the use of paralytics are in place to ensure anesthesiaxiv (Guide, p 123)					
5.	Eu	thanasia	A*	M	S	C	NA
	•	Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, p 123)		April 1			
	•	Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (<i>Guide</i> , pp 123-124)					-
	•	Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide</i> , p 124)					
_	•	Procedures and training are in place to ensure death is confirmed (<i>Guide</i> , <u>p 124</u>) [must]	1	7.			
6.	Dr	ug Storage and Control NEW	A*	M	S	C	NA
Access of the second	•	Program complies with federal regulations for human and veterinary drugs($Guide$, \underline{p} 115) $[must]$		The state of the s			
	•	Drug records and storage procedures are reviewed during facility inspections (<i>Guide</i> , <u>p</u> 115)					
The state of the s	•	Procedures are in place to ensure analgesics and anesthetics are used within expiration date (<i>Guide</i> , p 122) [must]					
	•	Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely ($Guide$, p 122)					<u> </u>
*	M =	acceptable - minor deficiency significant deficiency (is or may be a threat to animal health or safety) change in program (PHS Policy <u>IV.A.1.ai.</u>) (include in semiannual report to IO and in annual rep	ort t	o OLA	(W)		

NOTES:

NA = not applicable

II. Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

• L	ocation:	A *	M	S	C	N
0		17	T		T	Ţ
0		1/	-			-
0	separation by disease status (<i>Guide</i> , p 111)	+				
	security and access control (<i>Guide</i> , p 151)					-
	onstruction:				L	.i
0		1	1		[1
0	animal room doors (<i>Guide</i> , p 137)					
0	exterior windows (<i>Guide</i> , p 137)	-				ļ
0	floors (<i>Guide</i> , p 137)					ļ
	drainage (<i>Guide</i> , p 138)		ļ			ļ
0						-
0	walls and ceilings (<i>Guide</i> , p 138)	<u> </u>) *** ** ** *** *** *** *** ***	ļ
0	heating ventilation and air conditioning (Guide, p 139)	1				
0	power and lighting (Guide, p 141)					ļ
0	noise control (Guide, p 142)				***********	
0	vibration control (<i>Guide</i> , p 142)					
0		1_1				
• R	oom/Cage:					
0		1				
0		1				
0	illumination (<i>Guide</i> , <u>p 47</u>)					
0						
P	imary Enclosure:	1				
0	space meets physiologic, behavioral xv, and socialxvi needs (Guide, pp 51, 55-63)	1				
0	secure environment provided (Guide, p 51)					
0	durable, nontoxic materials in good repair and no risk of injury (Guide, p 51)					
0	flooring is safe and appropriate for species (Guide, p 51)	 			***************************************	
0	adequate bedding and structures for resting, sleeping, breeding (Guide, p 52)					
0	objective assessments of housing and management are made (<i>Guide</i> , p 52)		-			
0	procedures for routine husbandry are documented (<i>Guide</i> , p 52)	-				-
0	socially housed animals can escape or hide to avoid aggression (<i>Guide</i> , p 55)	- (
0	cage height provides adequate clearance (<i>Guide</i> , p 56)	1				
	animals express natural postures, can turn around, access food and water, and					
O	rest away from urine and feces ($Guide$, p 56) [must]					
	rest away from unite and reces (Guide, p. 56) must					
0	rationalexvii for Guide/USDA space exceptions approved by IACUC and based on	1		ĺ		
	performance indices (<i>Guide</i> , p 56)	-				
	dogs and cats allowed to exercise and provided human interaction (<i>Guide</i> , p 58)					
0	nonhuman primates are socially housed except for scientific, veterinary or					
	behavior reasons (<i>Guide</i> , pp 58-59)					
0	single housing of nonhuman primates is for shortest duration possible (Guide, \underline{p}					
	60)					
0	opportunities for release into larger enclosures is considered for single caged					
	nonhuman primates (<i>Guide</i> , <u>p 60</u>)					
0	agricultural animals are housed socially (Guide, p 60)					
0	food troughs and water devices for agricultural animals allow access for all					
	animals (<i>Guide</i> , <u>p 60</u>)					
Er	vironmental Enrichment, Behavioral and Social Management:					
0	structures and resources promote species typical behavior (Guide, pp 52-54)			T		
0	novelty of enrichment is considered (<i>Guide</i> , p 53)			1		
0	species specific plans for housing including enrichment, behavior and activity are					1000
	developed and reviewed regularly by IACUC, researchers and veterinarian					
	ual Checklist v3/8/2012)

		(Guide, pp 53, 58, 60, 63)	1	ļ	
	0	animal care personnel receive training to identify abnormal animal behaviors			
		(Guide, p 53)			
	0	stability of pairs or groups is monitored for incompatibility (<i>Guide</i> , <u>p 64</u>)			i
	0	single housing is justified for social species (Guide, p 64)			
		single housing is limited to the minimum period necessary (<i>Guide</i> , p 64)			
	0	single nousing is limited to the minimal period in provided (Cuido p. 64)			1
	0	additional enrichment for single housed animals is provided (Guide, p.64)			
	0	single housing is reviewed regularly by IACUC and veterinarian (<i>Guide</i> , p 64)	Į		
	0	habituation to routine procedures is part of enrichment program (Guide, p 64)	!		
•	Sh	eltered or Outdoor Housing: (e.g., barns, corrals, pastures, islands)			
	0	weather protection and opportunity for retreat (Guide, p 54) [must]			1
	0	appropriate size (<i>Guide</i> , p <u>54</u>)			1
	0	ventilation and sanitation of shelter (no waste/moisture build-up) (Guide, p 54)			1
	0	animal acclimation (<i>Guide</i> , p 55)			
		social compatibility (<i>Guide</i> , p 55)			
	0	roundup/restraint procedures (<i>Guide</i> , p. 55)			1-1-
	0_				
	0	appropriate security (<i>Guide</i> , p <u>55</u>)			
•	Na	turalistic Environments:		YT	
	0	animals added /removed with consideration of effect on group (Guide, p 55)			
	0	adequate food, fresh water, and shelter ensured (Guide, p 55)	1		<u> </u>
•	Fo	od:	<u></u>		
	0	feeding schedule and procedures including caloric intake management (Guide, pp			
		65-67)			
	0	contamination prevention (<i>Guide</i> , p 65)	1		
		vendor quality control (<i>Guide</i> , p 66)			
	0	storage in sealed containers (<i>Guide</i> , p 66)			
	0		!		
	0	expiration date labeling (<i>Guide</i> , <u>p 66</u>)	1		
	0	vermin control (Guide, p 66)			
	0	rotation of stocks (<i>Guide</i> , p 66)			
•	Wa	ater:			
	0	ad libitum unless justified (<i>Guide</i> , <u>pp 67-68</u>)			
	0	QC procedures (Guide, pp 67-68)	.\		
•	Ве	dding and Nesting Materials:			
	0	species appropriate (Guide, pp 68-69)			
	0	keeps animals dry (Guide, pp 68-69)			İ
	0	QC procedures (<i>Guide</i> , pp 68-69)			
	0	minimizes scientific variables (<i>Guide</i> , pp 68-69)			T I
		nitation:			
•			ř.		Ĭ
	0	frequency of bedding/substrate change (<i>Guide</i> , p.70)			
	0	cleaning and disinfection of microenvironment (Guide, pp 70-71)			
	0	cleaning and disinfection of macroenvironment (Guide, p 72)	∤ —		
	0	assessing effectiveness (Guide, p 73)	4		
•	W	aste Disposal:	-		
	0	procedures for collection (Guide, pp 73-74)			
	0	procedures for storage and disposal (Guide, pp 73-74)			
	0	hazardous wastes are rendered safe before removal from facility (Guide, pp 73-	1		
		74) [must]	1		
	0	animal carcasses (Guide, pp 73-74)			
		est Control:	and the second second second		
-		regularly scheduled (<i>Guide</i> , p 74)			
	0	regularly scheduled (Golde, p.7-)	-		
	0	documented program including control of rodent pests and insecticide use			
		(Guide, p 74)	1		!
•	En	nergency, Weekend, and Holiday Animal Care:	<u> </u>		
	0	care provided by qualified personnel every day (Guide, p 74)	1		
	0	provision for accessible contact information (Guide, p 74)			_
	0	monitoring of backup systems (<i>Guide</i> , p 143)			
	0	veterinary care available after hours, weekends, and holidays (Guide, pp 74,	1		
		114) [must]	1		
	,		-		
Ĺ	0	a disaster plan that takes into account both personnel and animals (Guide, p 75)			

•	Identification:
CHANGE CONTRACTOR & SALARA AND AND AND AND AND AND AND AND AND AN	o cage/rack cards contain required information (Guide, p 75)
	o genotype information included and standardized nomenclature used when
	applicable (Guide, p 75)
•	Recordkeeping:
	o clinical records accessible and contain appropriate information (Guide, pp 75-76)
	o records are provided when animals are transferred between institutions (<i>Guide</i> , p 75)
•	Breeding Genetics and Nomenclature:
	o appropriate genetic records, management and monitoring procedures (<i>Guide</i> , <u>p</u> 76)
	o phenotypes that affect wellbeing are reported to IACUC and effectively managed (Guide, p 77)
•	Storage:
	o adequate space for equipment, supplies, food, bedding and refuse (Guide, p 141)
	o bedding in vermin-free area and protected from contamination(Guide, p 141)
	o food in vermin-free, temperature and humidity controlled area and protected
	from contamination (<i>Guide</i> , p 141)
	o refuse storage is separate (Guide, p 141)
	o carcass and animal tissue storage is separate, refrigerated below 7°C and
	cleanable (Guide, p 141)
•	Personnel:
	o adequate space for locker rooms, administration and training (Guide, p 135)
* A =	acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy <u>IV.A.1.a.-i.</u>) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

NOTES:

supress yet profe

Aquatic Animal Housing and Support Areas NEW

Date: Location:

•	Location:	-	m come matter whiteen	marks of Victoria		
	o animal areas separate from personnel areas (Guide, p 134)	1	1			
	o separation of species (<i>Guide</i> , p 111)				1	
	o separation by disease status (<i>Guide</i> , p 111)		1			1
	o security and access control (<i>Guide</i> , p 151)				ļ	1
	Construction:			i		_
_	11. (0:14126)				1	
	(Colds on 127 150)		1	İ	T	ì
				 		Ť
	o exterior windows (<i>Guide</i> , p 137)				1	- -
	o floors (<i>Guide</i> , pp 137, 150)					- -
	o drainage (<i>Guide</i> , pp 138, 150)				<u> </u>	-
	o walls and ceilings (<i>Guide</i> , pp 138, 150)		-	ļ		
	 heating ventilation and air conditioning (Guide, pp 139, 150-151) 				ļ	
	o power and lighting (Guide, pp 141, 150)					1
	o noise control (Guide, p 142)					
	o vibration control (<i>Guide</i> , p 142)		İ			
	o environmental monitoring (<i>Guide</i> , p 143)	1				
•	Water Quality:					
	o standards for acceptable quality are established (Guide, p 78)					
	o chlorine, chloramines, chemical, and reactive bioproducts are removed or					1
	neutralized prior to use in aquatic systems (Guide, pp78, 86) [must]		ļ	İ		i
	Life Support System:	1	<u> </u>			
	o water source is based on appropriate controls and research requirements (<i>Guide</i> ,		Ţ	Ī	1	T
		1				
	p 79)	-\		-		1
	o biofilter is of sufficient size to process bioload (<i>Guide</i> , p 80) [must]	-1	L	ļ	1	_!
•	Temperature, Humidity and Ventilation/Illumination/Noise and Vibration:			T	-T	-1
	o temperature and humidity (<i>Guide</i> , pp 43, 80-81)	1		ļ	<u> </u>	-
	o ventilation and air quality (<i>Guide</i> , <u>pp 45</u> , <u>81</u>)		<u> </u>	-	ļ	
	o illumination (<i>Guide</i> , pp 47, <u>81</u>)					
	o noise and vibration (Guide, pp 49, 81)					
•	Primary Enclosure:			_'		
_	o allows for normal physiological and behavioral needs (<i>Guide</i> , p 82)	1	1	Ī		1
	o allows social interaction for social species (Guide, p.82)	1	1			
	o provides a balanced, stable environment (<i>Guide</i> , p.82)	17	1	1	İ	1
	the second secon		-			-
	Illustration to food and weeks named (Cuide n. 92)		i		-	- 1
	Little and antique and (Citida in 83)		1	1	ļ 	
	1 (0.11 (0.1)		-	1	1	i
	La La Caracteriale (Cuida a CO)		1			+
	1 1 1 1 1 2 1 (0 11 - 02)	++-			+	+
	Les Constituted by TACHC during program evaluations and			<u> </u>		Ť
		1				
	facility inspections (<i>Guide</i> , p.83)	104	_!			
•	Environmental Enrichment, Social Housing, Behavioral and Social Manageme	1	T -	1	T	1
	o enrichment elicits appropriate behaviors and is safe (<i>Guide</i> , p. 83)		<u> </u>	-	-	
	o semi-aquatic reptiles are provided terrestrial areas (<i>Guide</i> , p.83)			-	-	1
	o handling is kept to a minimum and appropriate techniques are in place at facility	1				
	or protocol level (<i>Guide</i> , p 84)	- 1	-			- 1
	o nets are cleaned, disinfected and managed to avoid contamination of systems			1		
	(Guide, p 84)		ļ		<u> </u>	_
,						
•	Food:storage to prevent contamination, preserve nutrients and prevent pests (Guide, preserve nutrients)	-,				

		0.1	-			
		84)	/			
	0	delivery ensures access to all , minimizing aggression and nutrient loss (Guide, p	/			
		84)	ļ			
	0	storage times are based on manufacturer recommendations or accepted practice				
		(Guide, p 84)				
	0	a nutritionally complete diet is provided (Guide, p 84)	<u> </u>			
		ıbstrate:				,
Party Management . C	0	amount, type and presentation of substrate is appropriate for the system and the species (Guide, p 85)				
•	Sa	nitation, Cleaning and Disinfection				
	0	frequency of tank/cage cleaning and disinfection is determined by water quality,				
		permits adequate viewing and health monitoring (Guide, p 86)				
	0	cleaning and disinfection of macroenvironment (Guide, p 86)	ĺ			
•		aste Disposal:		Î		
	0	procedures for collection (<i>Guide</i> , pp 73-74)				
	0	hazardous wastes are rendered safe before removal from facility (Guide, pp 73-				***************************************
		74) [must]				
	0	animal carcasses (Guide, pp 73-74)				
•	Pe	est Control:				
		regularly scheduled (<i>Guide</i> , <u>p 74</u>)				
		documented program including control of pests and insecticide use (Guide, p 74)				
•	En	nergency, Weekend, and Holiday Animal Care:				
	0	care provided by qualified personnel every day (Guide, pp 74, 87)	\			
	0	provision for accessible contact information (Guide, pp 74, 87)	1			
	0	emergency response plans in place to address major system failures (Guide, 87)	1			
	0	veterinary care available after hours, weekends, and holidays (Guide, pp 74, 114)	1			
		[must]	1			
•	Id	entification:	1			
	0	cage/tank cards contain required information (Guide, pp 75, 87)				
	0	genotype information included and standardized nomenclature used when	1			
		applicable (<i>Guide</i> , pp 75, 87)			<u></u>	
•		cordkeeping:				
		water quality parameters and frequency of testing recorded (Guide, p 88)				
		records kept on feeding, nonexpired food supplies, live cultures (Guide, p 88)	_ /			
•	St	orage:				
	0	adequate space for equipment, supplies, food, substrate and refuse (Guide, \underline{p}				
		141)				
	0	substrate protected from contamination (Guide, p 141)	1		<u> </u>	
	0	food in vermin-free, temperature and humidity controlled area and protected		1		
*************************		from contamination (<i>Guide</i> , <u>p 141</u>)				
	0	refuse storage is separate (<i>Guide</i> , <u>p 141</u>)	1_			
	0					
Mary management and						
•			-\-			
* 4			-\-	. L	<u></u>	
****	0	carcass and animal tissue storage is separate, refrigerated below 7°C and cleanable (<i>Guide</i> , p 141) rsonnel: adequate space for locker rooms, administration and training (<i>Guide</i> , p 135)				
* A	= acc	ceptable		. tr	·	

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NA = not applicable

Cagewash

Date: Location:

		A*	M	S	C	N
C	onstruction and Operation:					ļ
0	dedicated central area for sanitizing cages and equipment is provided (Guide, p	1				
	<u>143</u>)	11		ļ	ļ	Ļ
0	cage-washing equipment meets need (Guide, p 143)		ļ			-
0		1/				-
0						ļ
0	ease of access (including door size) facilitates use (Guide, p 143)				<u></u>	
0				ļ		
0	safety precautions/clothing/equipment used for waste disposal/prewash/acid	П				
	wash ((<i>Guide</i> , p 143)					
0				P. L. L. L. L. L. L. L. L. L. L. L. L. L.	İ	
	equipment and appropriate air pressurization (Guide, p 143)	11			-	1.
0	insulation and/or sound attenuation present as needed (Guide, p 143)					-
0	utilities are appropriate (Guide, p 143)				-	
0						1
0	safety features (e.g., SOPs, warning signs, eyewash stations) are in use (Guide,					
	p 143)					1
0	functioning safety devices to prevent entrapment in washer/sterilizers (Guide, p					
	143)		<u></u>	ļ		1-
0	cage wash temperatures are monitored and records are available (Guide, p 73)				ļ	_
0	appropriate clean cage storage (<i>Guide</i> , <u>p 141</u>)		1	1	1	
	cceptable					
_ n	niner deficiency					

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Special Facilities: Aseptic Surgery

Date: Location:

			A*	M	S	C	NA
	Ge	eneral Considerations:					
	0	location minimizes traffic/contamination (Guide, p 144)	90				
	0	functional components (surgical support, animal preparation, surgeon scrub,		i			
		operating room, postoperative recovery) are designed and separated (physically or otherwise) (<i>Guide</i> , p 144)					
	0	appropriate drug storage, control, expiration date monitoring (<i>Guide</i> , pp 115, 122)					
	0 -	safe sharps disposal system (Guide, p 74)					i
	0	adequate records of anesthesia and perioperative care (Guide, p 122)					
	0	aseptic procedures in use for all survival surgery (Guide, pp 118-119)					l
•	Or	perating Room:					
	0	effective contamination control procedures (Guide, p 144)					
	0	effective cleaning procedures/dedicated tools (Guide, p 145)					
	0	interior surfaces smooth and impervious to moisture (Guide, p_145)					
	0	HVAC system meets <i>Guide</i> requirements (<i>Guide</i> , p 145)	1				
	0	lighting safe and appropriate (<i>Guide</i> , <u>p 145</u>)					
	0	outlets safe and appropriate (Guide, p 145)					
	0	scavenging of anesthetic gases implemented (Guide, p 145)					
•	Su	rgical Support:					
	0	facility for washing, sterilizing, storing instruments and supplies (Guide, p 145)					
	0	autoclave monitoring procedures are implemented (Guide, pp 119, 145)					
	0	storage of autoclaved materials maintains sterility (Guide, p 145)					
	0	cold sterilization procedures are appropriate (Guide, p 119)					
•	An	imal Preparation: contains large sink to facilitate cleaning of animal and	1				
		erative site (<i>Guide</i> , <u>p 145</u>)					
•	Su	rgeon Scrub: outside operating room, non-hand-operated sink (Guide, p 145)					
•		stoperative Recovery: allows adequate observation, easily cleaned, supports					
		ysiologic functions, minimizes risk of injury (<i>Guide</i> , <u>p 145</u>)					
•	Dr	essing Area: place for personnel to change (Guide, p 145)					

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Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies

Date: Location:

		A	M	S	С	N/
Ge	neral Considerations:			r		T
0	labs used to house animals only when scientifically required and limited to					
	minimum period necessary (<i>Guide</i> , <u>p 134</u>)					-
0	drug storage, control, and expiration dates (Guide, pp 115, 122)		ļ	ļ		-
0	sharps disposal (<i>Guide</i> , <u>p 74</u>)					
0	anesthetic monitoring (Guide, p 120)			ļ		-
0	scavenging of anesthetic gases (<i>Guide</i> , <u>p 21</u>)		ļ	ļ		ļ
0	safety features (e.g., SOPs, safety signs, eyewash stations, secure gas cylinders)					
	are in place (Guide, p 19)			<u> </u>		
0	carcass disposal (Guide, pp 73-74)					l
Ad	ditional Concerns for Survival Surgery: (rodent and minor procedures only)					
0	rodent survival surgery clean and uncluttered, not used for anything else during					
	surgery (Guide, p 144)		-	-		-
0	records of peri-operative care (Guide, p 120)					-
0	aseptic procedures (Guide, pp 118-119)					<u> </u>
0	autoclave monitoring procedures (Guide, pp 119, 145)		ļ			1
0	storage of autoclaved materials (Guide, p 145)				1	_
0	cold sterilization procedures are appropriate (Guide, p 119)		1		<u> </u> 	
Im	naging/Whole Body Irradiation: NEW			,	,	
0	location of resource limits contamination risk (Guide, p 147)					
0	appropriate transportation methods are in place (Guide, p 147)					1
0	gas anesthesia provision, scavenging and monitoring are appropriate (Guide, p					
	147)				-	
0	appropriate sensors and ventilation are provided for cryogen gases (Guide, p				1	
	147) [must]					1_
0	imaging console is located away from radiation source (Guide, p 147)					
На	nzardous Agent Containment: NEW					
0	facility adheres to APHIS, USDA and CDC Select Agent Regulations and other					
O	federal, state and local regulations including security measures (<i>Guide</i> , p 148)		i			
	[must]	1				
Re	havioral Studies: NEW					
0	facility minimizes airborne transmission of noise and ground-borne transmission					
0	of vibration (<i>Guide</i> , p 149)					
0	floor coverings reduce sound transmission (<i>Guide</i> , p 149)					
0	testing equipment allows for surface disinfection (<i>Guide</i> , p 150)					
0	components that cannot be cleaned are not in ready contact with animals and			1		П
O	kept covered when not in use (<i>Guide</i> , p 150)					
	housing areas are contiguous with testing areas when appropriate (<i>Guide</i> , <u>p 150</u>)			1		T

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