Memorandum to:	nstitutional Official
From:	Institutional Animal Care and Use Committee
Subject:	Semiannual Report of the Program Review and Facility Inspection
Date:	Wednesday, May 19th, 2021

This report summarizes the IACUC's results of its most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), Section IV.B.1.-3., the *Guide for the Care and Use of Laboratory Animals* (*Guide*), and the Animal Welfare Act (AWA) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

# Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy <u>IV.A.1.a.-i.</u>): [optional]

N/a

# I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the AWA

Departures from the PHS Policy, the *Guide*, and the AWA. Select A or B:

- $[\checkmark]$  A. There were no departures during this reporting period.
- [ ] B. The following departures have been reviewed and approved by the IACUC: [include reason for each departure]

N/a

#### II. Deficiencies in the Institution's Animal Care and Use Program

Animal Care and Use Program Review Date(s): Select A or B:

- $[\checkmark]$  A. There were no deficiencies in the program during this reporting period.
- B. The following deficiencies have been identified: [describe each deficiency, identify each deficiency as either minor or significant, and provide a reasonable and specific plan and schedule for the correction of each deficiency, deficiencies may be recorded on a separate table and attached, the last page of OLAW's Sample Semiannual Program Review and Facility Inspection Checklist provides a sample table]

N/a

#### III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s):\_\_5/19/21\_\_

Conducted by: Facility Director and the Environmental Health & Safety Officer Select A or B:

- [] A. There were no deficiencies in the animal facility during this reporting period.
- B. The following deficiencies have been identified: [describe each deficiency, identify each deficiency as either minor or significant, and provide a reasonable and specific plan and schedule for the correction of each deficiency, deficiencies may be recorded on a separate table and attached, the last page of OLAW's Sample Semiannual Program Review and Facility Inspection Checklist provides a sample table]

#### Deficiency #1

- 1) Category: Minor
- 2) Location: Animal room #1718 vacant/not in use
- 3) Deficiency description: An accumulation of debris was noted in the gap between the sink counter and wall.
- 4) Plan for Correction
  - a) Schedule: 2 (two weeks)
  - b) Responsible personnel: Facility Director, BRF staff, building maintenance
    - i) Facility Director submitted a sample of the debris to EMSL Analytical, Inc.
    - ii) After sample submission, the animal room was sanitized with a diluted bleach solution by in-house/housekeeping crew.
    - iii) Debris was identified as non-living dust mites.
    - iv) BRF staff re-cleaned the room using a power washer and Rescue disinfectant solution. ATP swabs verified appropriate levels of sanitation.
    - v) The Director of Physical Plant & Maintenance was contacted regarding the type of air filters used in that room. It was confirmed that there are two types of filters used in the air ducts, a Merv 8 (pre filter) and Merv 14 (box filter). Dust mites are typically filtered out by Merv 10 filters, therefore our double filtration system is sufficient in preventing these organisms from entering the room.
    - vi) Since the last cleaning there has been no trace or sign of the identified substance. BRF staff has continued to monitor and sanitize the room regularly.
    - vii) Prior to room use, gaps between the sink, sink counter and wall will be sealed to prevent accumulation.

#### **IV.** Minority Views

Select A or B:

- $[\checkmark]$  A. No minority views were submitted or expressed.
- [] B. The following minority views were expressed.

N/a

#### V. Status of AAALAC Accreditation [identify accredited facilities, if applicable]

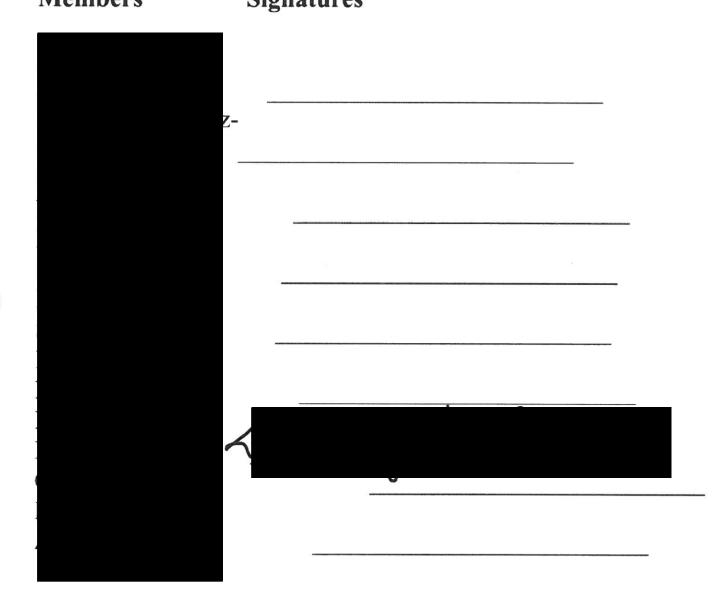
In progress

**VI.** Signatures (of a majority of the IACUC members required by AWAR (§2.31,c,3))

Names of IACUC Members	Signatures

6/16/21

# Date of Semiannual Inspection: May 18, 2021Names of IACUCMembersSignatures

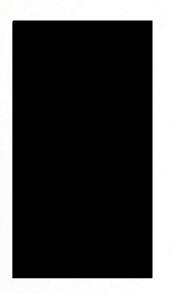


Obtained by Rise for Animals.

Uploaded to Animal Research Laboratory Overview (ARLO) on 08/25/2022 https://outlook.office.com/mail/inbox/id/AAQkAGQyMjg3OWNiLTU5MzAtNDdmYS05MDM2LTA1ZDBIMmYyYzFkYgAQAJiwZ%2BG%2FT9pJnW0kfGe... 1/2

#### Date of Semiannual Inspection: May 18, 2021

Names of IACUC Members



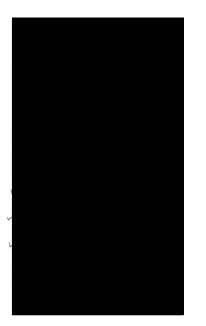
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	 	 and in subsection of	 ALC: N	

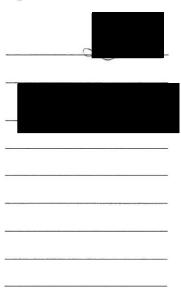
#### Semiannual Inspection and Program Review: May 19, 2021

Signatures
Carol Noralney DVm
jan
Gaea Austin

#### Semiannual Inspection and Program Review: May 19, 2021

#### Names of IACUC Members

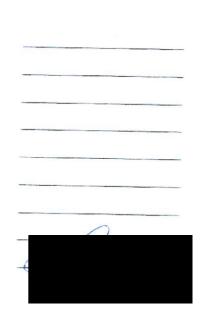




## Date of Semiannual Inspection: May 18, 2021

#### Names of IACUC Members



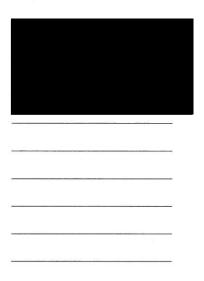


#### Semiannual Inspection and Program Review: May 19, 2021

Names of IACUC Members

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#### Revised: 5/18/18

#### 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 IV.A.1.a.-i.) 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
  - Cagewash
  - Special Facilities: Aseptic Surgery
  - Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, 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: <a href="mailto:olawdpe@mail.nih.gov">olawdpe@mail.nih.gov</a>.

## I. Semiannual Program Review Checklist <sup>i</sup>

#### Institutional Policies and Responsibilities

#### Date:

1.	Animal Care and Use Program NEW	<b>A</b> *	М	S	С	NA
	<ul> <li>Responsibility for animal well-being is assumed by all members of the program (<i>Guide</i>, p 1) [must]</li> </ul>	1				
	<ul> <li>IO has authority to allocate needed resources (<i>Guide</i>, <u>p 13</u>)</li> </ul>	1				
	<ul> <li>Resources necessary to manage program of veterinary care are provided (<i>Guide</i>, <u>p 14</u>)</li> <li>[must]</li> </ul>					
	<ul> <li>Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the Guide (Guide, pp 11, 15)</li> </ul>	$\checkmark$				
	<ul> <li>Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)</li> </ul>	$\checkmark$				
	<ul> <li>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]</li> </ul>	~				
2.	Disaster Planning and Emergency Preparedness NEW	<b>A</b> *	M	S	С	NA
	<ul> <li>Disaster plans for each facility to include satellite locations are in place (<i>Guide</i>, p <u>35</u>, p <u>75</u>) [must]</li> </ul>	1				
	<ul> <li>Plans include provisions for euthanasia (Guide, p 35) [must]</li> </ul>	$\checkmark$				
	<ul> <li>Plans include triage plans to meet institutional and investigators' needs (<i>Guide</i>, <u>p 35</u>)</li> <li>Plans define actions to prevent animal injury or death due to HVAC or other failures (<i>Guide</i>, <u>p 35</u>)</li> </ul>	√ √				
	<ul> <li>Plans describe preservation of critical or irreplaceable animals (Guide, p 35)</li> </ul>	$\checkmark$				
	• Plans include essential personnel and their training (Guide, p 35)	$\checkmark$				
	<ul> <li>Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i>, p <u>35</u>)</li> </ul>	$\checkmark$				
	<ul> <li>Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (<i>Guide</i>, <u>p 35</u>)</li> </ul>	$\checkmark$				
з.	IACUC NEW	<b>A</b> *	м	S	С	NA
	<ul> <li>Meets as necessary to fulfill responsibilities (Guide, p 25) [must]</li> </ul>	$\checkmark$				
	<ul> <li>IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (<i>Guide</i>, <u>p 26</u>) [must]</li> </ul>	1				
	<ul> <li>Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)</li> </ul>	$\checkmark$				
	IACUC evaluates the effectiveness of training programs ( <i>Guide</i> , <u>p 15</u> )	$\checkmark$				
4.	IACUC Protocol Review - Special Considerations	<b>A</b> *	м	s	С	NA
	<ul> <li>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>, p 27)</li> </ul>	~				
	<ul> <li>For pilot studies, a system to communicate with the IACUC is in place (<i>Guide</i>, <u>p 28</u>)</li> <li>For genetically modified animals, enhanced monitoring and reporting is in place</li> </ul>	√ √				
	<ul> <li>(Guide, p 28)</li> <li>Restraint devices are justified in the animal use protocols (Guide, p 29) [must]</li> </ul>	~				
		V				
	Details for the state of the st	1				
	<ul> <li>Period of restraint is the minimum to meet scientific objectives (Guide, p.29)</li> <li>Training of animals to adapt to restraint is provided (Guide, p.29)</li> </ul>	~				
	<ul> <li>Animals that fail to adapt are removed from study (<i>Guide</i>, p 29)</li> </ul>	1				
	<ul> <li>Appropriate observation intervals of restrained animals are provided (<i>Guide</i>, p 29)</li> </ul>	1				
	<ul> <li>Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i>, <u>p_30</u>)</li> <li>[must]</li> </ul>	~				
1	<ul> <li>Explanations of purpose and duration of restraint are provided to study personnel (Guide, p 30)</li> </ul>	$\checkmark$				
	Multiple surgical procedures on a single animal are justified and outcomes evaluated	$\checkmark$				
	Semiannual Checklist v3/8/2012					3

	( <i>Guide</i> , <u>p_30</u> )						
	<ul> <li>Major versus minor surgical procedures are evaluated on p 30)</li> </ul>		$\checkmark$				
	<ul> <li>Multiple survival procedure justifications in non-regulated species standards (<i>Guide</i>, <u>p 30</u>)</li> </ul>		$\checkmark$				C
	<ul> <li>Animals on food/fluid restriction are monitored to ensure (Guide, p 31)</li> </ul>		~				
	<ul> <li>Body weights for food/fluid restricted animals are recorded</li> </ul>	d at least weekly (Guide, p	~				
	<u>31</u> )		~				
	<ul> <li>Daily written records are maintained for food/fluid restrict</li> <li>Pharmaceutical grade chemicals are used , when available procedures (<i>Guide</i>, p 31)</li> </ul>	e, for animal-related	✓ ✓				
	<ul> <li>Non-pharmaceutical grade chemicals are described, justif</li> </ul>	ied, and approved by IACUC	~				
	(Guide, <u>p 31</u> )						1
5.	5. IACUC Membership and Functions		A*	М	S	С	NA
	• IACUC is comprised of at least 5 members, appointed by	CEO (PHS Policy, IV.A.3.)	$\checkmark$				
	<ul> <li>Members include a veterinarian, a scientist, a nonscientist animal user (Guide, p 24)<sup>ii</sup></li> </ul>		$\checkmark$				
	<ul> <li>IACUC authority and resources for oversight and evaluation are provided (Guide, p 14)</li> </ul>		$\checkmark$				
	<ul> <li>IACUC conducts semiannual evaluations of institutional ar (PHS Policy, <u>IV.B.</u>)</li> </ul>		~				
	<ul> <li>Conducts semiannual inspections of institutional animal fa</li> </ul>	cilities (PHS Policy, IV.B.)	1				
	IACUC organizationally reports to the Institutional Official		1				
	<ul> <li>Methods for reporting and investigating animal welfare co 23) [must]</li> </ul>	ncerns are in place (Guide, p	~				
	<ul> <li>Reviews and investigates concerns about animal care and Policy, IV.B.)</li> </ul>		~				
	<ul> <li>Procedures are in place for review, approval, and suspens</li> </ul>						
	(PHS Policy, <u>IV.B.</u> )		$\checkmark$				(
	<ul> <li>Procedures are in place for review and approval of signific activities (PHS Policy, <u>IV.B.</u>)</li> </ul>		$\checkmark$				
	<ul> <li>Policies are in place for special procedures (e.g., genetical restraint, multiple survival surgery, food and fluid regulati agricultural animals) (<i>Guide</i>, p 27-32)</li> </ul>	on, field investigations,	1				
	<ul> <li>Requests for exemptions from major survival surgical produced to USDA/APHIS<sup>v</sup> (Guide, p 30) [must]</li> </ul>		~				
6	5. IACUC Training NEW		4*	м	S	C	NA
	All IACUC members s			1-1	5	C	INA
			1				
	<ul> <li>Formal orientation to institution's program (Guide, p 1</li> <li>Training on legislation, regulations, guidelines, and po</li> </ul>		1				
	<ul> <li>Training on how to inspect facilities and labs where an</li> </ul>		•				
	( <i>Guide</i> , <u>p 17</u> )		$\checkmark$				
	<ul> <li>Training on how to review protocols as well as evaluat</li> </ul>	e the program (Guide, p <u>17</u> )	$\checkmark$				
	<ul> <li>Ongoing training/education (Guide, p 17)</li> </ul>		$\checkmark$				
7	7. IACUC Records and Reporting Requirements <sup>vi</sup>		4*	м	s	C	NA
	Semiannual report to the In		-	1.1	5	C	INA
	<ul> <li>Submitted to IO every 6 months</li> </ul>		$\checkmark$				
	<ul> <li>Compiles program review and facility inspection(s) res and facility deficiencies)</li> </ul>	ults (includes all program	1				
	<ul> <li>Includes minority IACUC views</li> </ul>		1				
	<ul> <li>Describes IACUC-approved departures from the <i>Guide</i> reasons for each departure<sup>vii</sup></li> </ul>	or PHS Policy and the					
	<ul> <li>Distinguishes significant from minor deficiencies</li> </ul>		1				6
	<ul> <li>Includes a plan and schedule for correction for each de</li> </ul>		1				-
	Reports to OLAW (PH		ne di				

		<ul> <li>Annual report to OLAW documents program changes, dates of the semiannual</li> </ul>	$\checkmark$				
		<ul> <li>program reviews and facility inspections and includes any minority views</li> <li>Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy</li> </ul>	V				
		<ul> <li>Promptly advises OLAW of serious/ongoing Guide deviations of PHS Policy noncompliance (NOT-OD-05-034)</li> </ul>	$\checkmark$				
)		<ul> <li>Institute must promptly advise OLAW of any suspension of an animal activity by</li> </ul>					
		the IACUC ( <u>NOT-OD-05-034</u> )	$\checkmark$				
		<ul> <li>Reports to U.S. Department of Agriculture (USDA) or Federal funding age</li> </ul>	ency	Y <sup>ix</sup>			
		<ul> <li>Annual report to USDA contains required information including all</li> </ul>	$\checkmark$				
		<ul> <li>exceptions/exemptions</li> <li>Reporting mechanism to USDA is in place for IACUC-approved exceptions to the</li> </ul>	V				
			$\checkmark$				
		• Reports are filed within 15 days for failures to adhere to timetable for correction of					
		Significant achieves	$\checkmark$				
		<ul> <li>Promptly reports suspensions of activities by the IACUC to USDA and any Federal funding agency</li> </ul>	$\checkmark$				
		<ul> <li>Records (PHS Policy, <u>IV.E.</u>)</li> </ul>					
		<ul> <li>IACUC meeting minutes and semiannual reports to the IO are maintained for 3</li> </ul>					
		(curs	~				
			$\checkmark$				
		<ul> <li>Records of IACUC reviews are maintained for 3 years after the completion of the study</li> </ul>	1				
		study	v				
8.			<b>A</b> *	Μ	S	С	NA
		An arrangement for veterinarian(s) with training or experience in lab animal medicine					
		io in place hieraung bachap reconner, en e	√				
			$\checkmark$				
		Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use ( <i>Guide</i> , $p \ 14$ ) [must]	$\checkmark$				
		Veterinarian provides consultation when pain and distress exceeds anticipated level in					
		protocol ( <i>Guide</i> , <u>p 5</u> ) [must]	$\checkmark$				
		Veterinarian provides consultation when interventional control is not possible (Guide, p					
		5) [max]	~				
			1				
			1				
		$\frac{1}{1} = \frac{1}{1} = \frac{1}$	$\checkmark$				
	•	veterinarian(s) have experience in facility administration/management (Guide, $\underline{p}$ 15)	V				
9.	Per	sonnel Qualifications and Training	A*	М	S	С	NA
	•	All personnel are adequately educated, trained, and/or qualified in basic principles of					
		laboratory animal science. Personnel included: [must]					
			$\checkmark$				
		(cure, <u>pr</u> )	~				
		A A A A A A A A A A A A A A A A A A A	$\checkmark$				
			$\checkmark$				
		Continuing education for program and research staff provided to ensure high quality	,				
			$\checkmark$				
			$\checkmark$				
	•	Training is documented ( <i>Guide</i> , <u>p 15</u> ) • Training program content includes: ( <i>Guide</i> , <u>p 17</u> )	V				
			$\checkmark$				
			1				
		<ul> <li>Humane practices of animal use (e.g., research procedures, use of anesthesia,</li> </ul>					
		pre- and post-operative care, aseptic surgical techniques and euthanasia ( <i>Guide</i> , $p = 17$ ) <sup>xiii</sup>					
		<ul> <li>Research/testing methods that minimize numbers necessary to obtain valid results</li> </ul>					
		(PHS Policy IV A 1 g)	1				

	(PHS POlicy, <u>IV.A.I.g.</u> )	
0	Research/testing methods that minimize animal pain or distress (PHS Policy,	

	<u>IV.A.1.g.</u> )					
	<ul> <li>Use of hazardous agents, including access to OSHA chemical hazard notices where</li> </ul>					
	applicable (Guide, p 20)	~				
	<ul> <li>Animal care and use legislation (Guide, p 17)</li> </ul>	$\checkmark$				1
	<ul> <li>IACUC function (Guide, p 17)</li> </ul>	$\checkmark$				(
	<ul> <li>Ethics of animal use and Three R's (Guide, p 17)</li> </ul>	$\checkmark$				
10.	Occupational Health and Safety of Personnel	<b>A</b> *	м	S	С	NA
•	Program is in place and is consistent with federal, state, and local regulations ( <i>Guide</i> , $p \ 17$ ) [must]	~				
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)	$\checkmark$				
•	Changing, washing, and showering facilities are available as appropriate ( $Guide$ , p 19) Hazardous facilities are separated from other areas and identified as limited access	1				
	(Guide, <u>p 19</u> )	$\checkmark$				
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) ( <i>Guide</i> , <u>p 20</u> )	1				
•	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) ( <i>Guide</i> , <u>p 20</u> )	$\checkmark$				
	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical					
•	agents are in place ( <i>Guide</i> , $p \ge 1$ ) Personal Protective Equipment for the work area is appropriate and available ( <i>Guide</i> , $p \ge 1$ )	$\checkmark$				
	<u>21</u> )	$\checkmark$				
	<ul> <li>Program for medical evaluation and preventive medicine for personnel in</li> </ul>	ncluc	les:			
	<ul> <li>Pre-employment evaluation including health history (Guide, p 22)</li> </ul>	$\checkmark$				
	<ul> <li>Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (<i>Guide</i>, <u>p 22</u>)</li> </ul>	~				
	<ul> <li>Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (<i>Guide</i>, <u>p 23</u>)</li> </ul>	1				
	<ul> <li>Promotes early diagnosis of allergies including preexisting conditions (Guide, p 22)</li> </ul>	$\checkmark$				
	<ul> <li>Considers confidentiality and other legal factors as required by federal, state and local regulations (<i>Guide</i>, <u>p 22</u>) [must]</li> </ul>	$\checkmark$				C
	<ul> <li>If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) [must]</li> </ul>	~				
•	Waste anesthetic gases are scavenged (Guide, p 21)	$\checkmark$				
•	Hearing protection is provided in high noise areas (Guide, $p 22$ )	$\checkmark$				
•	Respiratory protection is available when performing airborne particulate work ( <i>Guide</i> , $p 22$ )	$\checkmark$				
•	Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:					
	• Tuberculosis screening provided for all exposed personnel ( <i>Guide</i> , <u>p 23</u> )	$\checkmark$				
	<ul> <li>Training and implementation of procedures for bites, scratches, or injuries associated with macaques (<i>Guide</i>, p 23)</li> </ul>	$\checkmark$				
	<ul> <li>PPE is provided including gloves, arm protection, face masks, face shields, or goggles (<i>Guide</i>, <u>p 21</u>)</li> </ul>	1				
	<ul> <li>Injuries associated with macaques are carefully evaluated and treatment implemented (<i>Guide</i>, <u>p 23</u>)</li> <li>Occupational safety and health of field studies is reviewed by OSH committee or office</li> </ul>	~				
•	(Guide, $p 32$ )	$\checkmark$				
11.	Personnel Security NEW	<b>A</b> *	М	S	С	NA
•	Preventive measures in place include pre-employment screening, and physical and IT security ( <i>Guide</i> , $p 23$ )	~				
12.	Investigating & Reporting Animal Welfare Concerns NEW	<b>A</b> *	м	s	С	NA
•	Methods for investigating and reporting animal welfare concerns are established ( <i>Guide</i> , p 23) [must]	~		3	C	
•	Reported concerns and corrective actions are documented ( <i>Guide</i> , p 24)	$\checkmark$				6
•	Mechanisms for reporting concerns are posted in facility and at applicable website with instructions ( <i>Guide</i> , $p \ 24$ )	$\checkmark$				
Sei	miannual Checklist v3/8/2012	Obta	ined b	y Ris	e for	6 Anima

0	Includes multiple contacts ( <i>Guide</i> , <u>p 24</u> )	$\checkmark$	
0	Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection ( <i>Guide</i> , p 24)	$\checkmark$	

A = acceptable

M = minor deficiencyS = 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

#### **Veterinary Care**

#### Date:

1.	1. Clinical Care and Management 🗏	EW	<b>A</b> *	м	S	С	NA
		ty of care and ethical standards (Guide, $p 105$ )	~				
	<ul> <li>Veterinarian provides guidance to all</li> </ul>	personnel to ensure appropriate husbandry, algesia, and euthanasia ( $Guide$ , $p$ <u>106</u> )	~				
		Irgery and perioperative care (Guide, p 106)	1				
	<ul> <li>Veterinary care program is appropria</li> </ul>	ate for program requirements (Guide, $pp 113-114$ ) es and use of animals and has access to medical	√ √				
		cident reports are in place (Guide, <u>p 114</u> )	$\checkmark$				
	investigator(Guide, p 114)	termine course of treatment in consultation with	j				
	treatments and outcomes (Guide		√				
	<ul> <li>Procedures established for timely rep p 114) [must]</li> </ul>	of medical and animal use records (Guide, $p \ 115$ ) porting of animal injury, illness, or disease (Guide,	√				
	114) [must]	$\gamma$ assessment, treatment, or euthanasia ( <i>Guide</i> , <u>p</u>	V.				
	<ul> <li>Veterinarian is authorized to treat, re [must]</li> </ul>	elieve pain, and/or euthanize (Guide, p <u>114</u> )	1				
2.	2. Animal Procurement and Transpo	ortation/Preventive Medicine	Å*	м	S	С	NA
		ment are in place (Guide, p 106) [must]	√.				
			s .				$\Box$
	<ul> <li>Procurement is linked to IACUC review</li> </ul>		$\checkmark$				
	Appropriate records are maintained of		$\checkmark$				
		et program needs and quality ( <i>Guide</i> , $p = 106$ )	$\checkmark$				
		and managed to minimize numbers (Guide, $p$	√				
	<ul> <li>Procedures for compliance with anim international requirements, are in pla</li> </ul>	al transportation regulations, including ace ( <i>Guide</i> , <u>p 107</u> ) [must]	v .				
		ninimize transit time and deliveries are planned to	√. √				
	<ul> <li>Appropriate loading and unloading fa</li> </ul>	cilities are available (Guide, p 109)	$\checkmark$				
	<ul> <li>Environment at receiving site is appr</li> </ul>	opriate ( <i>Guide</i> , <u>p 109</u> )	$\checkmark$				
	<ul> <li>Policies in place on separation by spentium <u>111-112</u>)</li> </ul>	cies, source, and health status (Guide, pp 109,	√ .				
			$\checkmark$				
	<ul> <li>Quarantined animals from different s separated (Guide, p 110)</li> </ul>	hipments are handled separately or physically	~				
	<ul> <li>Procedures in place for stabilization/a</li> </ul>	acclimation (Guide, pp 110-111)	<i>V</i> .				
	<ul> <li>Policies in place for isolation of sick a</li> </ul>		✓ .				
	<ul> <li>Program is in place for surveillance, or include daily observation (Guide, p 1</li> </ul>		~				
	Diagnostic resources are available fo	r preventive health program (Guide, <u>p 112</u> )	$\checkmark$				
3.	3. Surgery		<b>A</b> *	М	S	С	NA
	Surgical outcomes are assessed and	corrective changes instituted (Guide, p 115)	1.				()
	[must]		1				
	<ul> <li>Pre-surgical plans are developed and Semiannual Checklist</li> </ul>	include veterinary input (e.g., location, supplies, v3/8/2012	Ohte	ined b	W Die		B

	anesthetic and analgesic use, peri-operative care, recordkeeping) (Guide, p 116) $\checkmark$	
•	Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved ( <i>Guide</i> , $p \ 116$ )	l ✓
)•	Surgical procedures including laparoscopic procedures are categorized as major or minor ( <i>Guide</i> , <u>pp 117-118</u> )	$\checkmark$
•	For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean ( <i>Guide</i> , $p 118$ )	$\checkmark$
•	Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119)	$\checkmark$
•	Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place ( <i>Guide</i> , $p \ 119$ )	1
•	Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, $p$ 119)	1
•	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)	$\checkmark$

4.	Pain, Distress, Anesthesia and Analgesia	<b>A</b> *	Μ	S	С	NA
	<ul> <li>Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (<i>Guide</i>, p 121)</li> </ul>	1				
	<ul> <li>Selection of analgesics and anesthetics is based on professional veterinary judgment (Guide, p 124)</li> </ul>	~				
	<ul> <li>Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122)</li> </ul>	~				
	<ul> <li>Nonpharmacologic control of pain is considered as an element of postprocedural care (Guide, p 122)</li> </ul>	~				
	<ul> <li>Procedures are in place to assure antinoception before surgery begins (<i>Guide</i>, <u>p 122</u>)</li> <li>[must]</li> </ul>	~				
	<ul> <li>Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide</i>, <u>p 122</u>)</li> </ul>	~				
	<ul> <li>Special precautions for the use of paralytics are in place to ensure anesthesia<sup>xiv</sup> (Guide, p 128)</li> </ul>	~				

5. Euthanasia-

Euthanasia 🗸			S	С	NA
<ul> <li>Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, p 123)</li> </ul>	~				
<ul> <li>Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (<i>Guide</i>, <u>pp 123-124</u>)</li> </ul>	$\checkmark$				
<ul> <li>Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide</i>, <u>p 124</u>)</li> </ul>	$\checkmark$				
<ul> <li>Procedures and training are in place to ensure death is confirmed (<i>Guide</i>, <u>p 124</u>)</li> <li>[must]</li> </ul>	$\checkmark$				
Drug Storage, and Control NEW		М	s	С	NA

6.	Dr	rug Storage, and Control NEW				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 ( <i>Guide</i> , 115)	₽_				
	•	Procedures are in place to ensure analgesics and anesthetics are used within expiration date ( <i>Guide</i> , <u>p 122</u> ) [must]	$\checkmark$				
	•	Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely ( <i>Guide</i> , $p 122$ )	$\checkmark$				

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NA = not applicable

**OTES:** 

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V

#### **II. Semiannual Facility Inspection Checklist**

#### **Terrestrial Animal Housing and Support Areas**

#### Date:

Location:

		<b>A</b> *	Μ	S	С	NA
•	Location:					
	<ul> <li>animal areas separate from personnel areas (Guide, p 134)</li> </ul>	V				
	<ul> <li>separation of species (Guide, p 111)</li> </ul>	V				
	<ul> <li>separation by disease status (Guide, p 111)</li> </ul>	レ				
	<ul> <li>security and access control (Guide, p 151)</li> </ul>	V				
•	Construction:					
	o corridors ( <i>Guide</i> , <u>p 136</u> )	V				
	<ul> <li>animal room doors (Guide, p 137)</li> </ul>	V				
	o floors ( <i>Guide</i> , <u>p 137</u> )	77777777				
	o drainage (Guide, p 138)	V				
	<ul> <li>walls and ceilings (Guide, p 138)</li> </ul>	V				
	<ul> <li>heating ventilation and air conditioning (Guide, p 139)</li> </ul>	V				
	<ul> <li>power and lighting (Guide, p 141)</li> </ul>	V				
	<ul> <li>noise control (Guide, p 142)</li> </ul>	V				
	<ul> <li>vibration control (Guide, p 142)</li> </ul>	V				
	<ul> <li>environmental monitoring (Guide, p 143)</li> </ul>	V				
•	Room/Cage:					
	• temperature and humidity ( <i>Guide</i> , $p 43$ )	1				
	• ventilation and air quality (Guide, $p 45$ )	10				
	• illumination ( <i>Guide</i> , $p 47$ )	1111				
	<ul> <li>noise and vibration (Guide, p 49)</li> </ul>	V				(
•	Primary Enclosure:					
	• space meets physiologic, behavioral $xv$ , and social $xvi$ needs ( <i>Guide</i> , pp 51, 55-63)	~				
		./				
	Letter to be table to provide and an etable of tables (Code or E1)	~				
	figuring is acferent and an end into far an end in (Cuide a F1)	-				
		V				
		V				
	o objective assessments of housing and management are made ( <i>Guide</i> , <u>p 52</u> )	V				
	<ul> <li>procedures for routine husbandry are documented (<i>Guide</i>, p 52)</li> <li>provide prime and prime and prime are bide to pupid approaches (<i>Guide</i>, p 55)</li> </ul>	V				
	$\circ$ socially housed animals can escape or hide to avoid aggression ( <i>Guide</i> , <u>p 55</u> )	V				
	<ul> <li>cage height provides adequate clearance (Guide, p 56)</li> </ul>	V				
	o animals express natural postures, can turn around, access food and water, and	177777777777	•			
	rest away from urine and feces ( <i>Guide</i> , <u>p 56</u> ) [must]	V				
	o rationale <sup>xvii</sup> for <i>Guide</i> /USDA space exceptions approved by IACUC and based on	1				
	performance indices ( <i>Guide</i> , <u>p.56</u> )					
	o dogs and cats allowed to exercise and provided human interaction ( <i>Guide</i> , <u>p 58</u> )	V				
	o nonhuman primates are socially housed except for scientific, veterinary or	1				
	behavior reasons (Guide, pp 58-59)	v				
	single housing of nonhuman primates is for shortest duration possible ( <i>Guide</i> , <u>p</u>					
	<u>60</u> )	•				
	o opportunities for release into larger enclosures is considered for single caged	10				
	nonhuman primates ( <i>Guide</i> , <u>p 60</u> )	V				
•	Environmental Enrichment, Behavioral and Social Management:					
	structures and resources promote species typical behavior ( <i>Guide</i> , <u>pp 52-54</u> )	V				
	novelty of enrichment is considered ( <i>Guide</i> , <u>p 53</u> )	V				
	species specific plans for housing including enrichment, behavior and activity are					2
	developed and reviewed regularly by IACUC, researchers and veterinarian	V				(
	( <i>Guide</i> , <u>pp 53</u> , <u>58</u> , <u>60</u> , <u>63</u> )					
	animal care personnel receive training to identify abnormal animal behaviors	1				
	( <i>Guide</i> , <u>p 53</u> )	v				

Semiannual Checklist

	<ul> <li>stability of pairs or groups is monitored for incompatibility (Guide, p 64)</li> </ul>	V
	<ul> <li>single housing is justified for social species (Guide, <u>p.64</u>)</li> </ul>	r
	$\circ$ single housing is limited to the minimum period necessary ( <i>Guide</i> , <u>p. 64</u> )	11111
	<ul> <li>additional enrichment for single housed animals is provided (Guide, p 64)</li> </ul>	~
	<ul> <li>single housing is reviewed regularly by IACUC and veterinarian (<i>Guide</i>, p 64)</li> </ul>	1
	<ul> <li>habituation to routine procedures is part of enrichment program (Guide, p 64)</li> </ul>	V
٠	Naturalistic Environments:	
	<ul> <li>animals added /removed with consideration of effect on group (Guide, p 55)</li> </ul>	
	<ul> <li>adequate_food, fresh water, and shelter ensured (Guide, p 55)</li> </ul>	V
	Food:	
	<u>65-67</u> ) ·	5 11 1 1 1
	<ul> <li>contamination prevention (Guide, <u>p 65</u>)</li> </ul>	V-
	<ul> <li>vendor quality control (<i>Guide</i>, <u>p 66</u>)</li> </ul>	
	<ul> <li>storage in sealed containers (Guide, p 66)</li> </ul>	r
	• expiration date labeling ( <i>Guide</i> , $p = 66$ )	1-
		1 C
	<ul> <li>rotation of stocks (<i>Guide</i>, <u>p 66</u>)</li> </ul>	V
•	Water:	
	<ul> <li>ad libitum unless justified (<i>Guide</i>, pp 67-68)</li> </ul>	
	<ul> <li>QC procedures (<i>Guide</i>, <u>pp 67-68</u>)</li> </ul>	$\checkmark$
	Bedding and Nesting Materials:	· · · · · · · · · · · · · · · · · · ·
		1
	<ul> <li>species appropriate (Guide, pp 68-69)</li> </ul>	~~~~
	<ul> <li>keeps animals dry (Guide, pp 68-69)</li> </ul>	V
	<ul> <li>QC procedures (<i>Guide</i>, <u>pp 68-69</u>)</li> </ul>	V
	<ul> <li>minimizes scientific variables (<i>Guide</i>, <u>pp 68-69</u>)</li> </ul>	V
	Sanitation:	
	<ul> <li>frequency of bedding/substrate change (Guide, p 70)</li> </ul>	1
		V
	<ul> <li>cleaning and disinfection of microenvironment (<i>Guide</i>, <u>pp 70-71</u>)</li> </ul>	V.
	<ul> <li>cleaning and disinfection of macroenvironment (Guide, p 72)</li> </ul>	YY I
	<ul> <li>assessing effectiveness (Guide, p 73)</li> </ul>	$\checkmark$
•	Waste Disposal:	
	o procedures for collection ( <i>Guide</i> , pp 73-74)	1
		V
	o procedures for storage and disposal (Guide np. 73-74)	1
	<ul> <li>procedures for storage and disposal (<i>Guide</i>, pp 73-74)</li> <li>bazardaus wastes are rendered safe before removal from facility (<i>Guide</i>, pp 73-74)</li> </ul>	V
	<ul> <li>hazardous wastes are rendered safe before removal from facility (Guide, pp 73-</li> </ul>	L L
	<ul> <li>hazardous wastes are rendered safe before removal from facility (<i>Guide</i>, <u>pp 73-</u> <u>74</u>) [must]</li> </ul>	
	<ul> <li>hazardous wastes are rendered safe before removal from facility (Guide, pp 73-</li> </ul>	
	<ul> <li>hazardous wastes are rendered safe before removal from facility (<i>Guide</i>, <u>pp 73-</u> <u>74</u>) [must]</li> </ul>	
•	<ul> <li>hazardous wastes are rendered safe before removal from facility (<i>Guide</i>, <u>pp 73-74</u>) [must]</li> <li>animal carcasses (<i>Guide</i>, <u>pp 73-74</u>)</li> <li>Pest Control:</li> </ul>	
•	<ul> <li>hazardous wastes are rendered safe before removal from facility (<i>Guide</i>, <u>pp 73-74</u>) [must]</li> <li>animal carcasses (<i>Guide</i>, <u>pp 73-74</u>)</li> <li>Pest Control:</li> <li>regularly scheduled (<i>Guide</i>, <u>p 74</u>)</li> </ul>	
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<ul> <li>phenotypes that affect wellbeing are reported to IACUC and effectively managed (Guide, p. 77)</li> </ul>	V	
Storage:		
<ul> <li>adequate space for equipment, supplies, food, bedding and refuse (Guide, p 141)</li> </ul>	V	
<ul> <li>bedding in vermin-free area and protected from contamination(Guide, p 141)</li> </ul>	V	
<ul> <li>food in vermin-free, temperature and humidity controlled area and protected from contamination (<i>Guide</i>, p 141)</li> </ul>	V	
<ul> <li>refuse storage is separate (Guide, p 141)</li> </ul>	V	
<ul> <li>carcass and animal tissue storage is separate, refrigerated below 7°C and cleanable (<i>Guide</i>, <u>p 141</u>)</li> </ul>	$\checkmark$	
Personnel:	~	
<ul> <li>adequate space for locker rooms, administration and training (Guide, p 135)</li> </ul>	V	

- 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:

\*

Semiannual Checklist

#### Cagewash

#### Date: Location:

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

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#### **Special Facilities: Aseptic Surgery**

#### Date: Location:

			<b>A</b> *	Μ	S	С	NA
	• G	eneral Considerations:					
	0	location minimizes traffic/contamination (Guide, p 144)	V				
	0	functional components (surgical support, animal preparation, surgeon scrub, operating room, postoperative recovery) are designed and separated (physically or otherwise) ( <i>Guide</i> , p 144)	V				
	0	appropriate drug storage, control, expiration date monitoring ( <i>Guide</i> , pp 115, 122)	V				
	0	safe sharps disposal system ( <i>Guide</i> , <u>p 74</u> )	V	•			
	0	adequate records of anesthesia and perioperative care (Guide, p 122)	V				
	0	aseptic procedures in use for all survival surgery (Guide, pp 118-119)	V				
	• 0	perating Room:					
	0	effective contamination control procedures (Guide, p 144)	V				
	0	effective cleaning procedures/dedicated tools (Guide, p 145)	V				
	0	interior surfaces smooth and impervious to moisture (Guide, $p 145$ )	V				
	0	HVAC system meets Guide requirements (Guide, p 145)	V				
	0	lighting safe and appropriate (Guide, p 145)	V/				
	0	outlets safe and appropriate (Guide, p 145)	V				
	0	scavenging of anesthetic gases implemented (Guide, p 145)	$\checkmark$				
	SI	urgical Support:					
	0	facility for washing, sterilizing, storing instruments and supplies (Guide, p 145)	V				
	0	autoclave monitoring procedures are implemented (Guide, pp 119, 145)	V				
	0		~				
•		<b>nimal Preparation:</b> contains large sink to facilitate cleaning of animal and perative site ( <i>Guide</i> , <u>p 145</u> )	V				(
	SI	<b>irgeon Scrub:</b> outside operating room, non-hand-operated sink (Guide, p 145)	W	V			
•		<b>ostoperative Recovery:</b> allows adequate observation, easily cleaned, supports hysiologic functions, minimizes risk of injury ( <i>Guide</i> , <u>p 145</u> )	V	,			
		ressing Area: place for personnel to change (Guide, p 145)	V				
	<b>A</b> = ac	ceptable inor deficiency					

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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:

			<b>A</b> *	Μ	S	С	NA
•	Ge	eneral Considerations:					
	0	labs used to house animals only when scientifically required and limited to	. /				
		minimum period necessary (Guide, p 134)	V				
	0	drug storage, control, and expiration dates (Guide, pp 115, 122)	V				
	0	sharps disposal (Guide, p 74)	V.				
	0	anesthetic monitoring (Guide, p 120)	V				
	0	scavenging of anesthetic gases (Guide, p 21)	V				
	0	safety features (e.g., SOPs, safety signs, eyewash stations, secure gas cylinders)	1				
		are in place (Guide, p 19)	- /				
	0	carcass disposal (Guide, pp 73-74)	V				
۰	Ac	Iditional Concerns for Survival Surgery: (rodent and minor procedures only)					
	0	rodent survival surgery clean and uncluttered, not used for anything else during surgery (Guide, $p 144$ )	V	-			
	0	records of peri-operative care (Guide, p 120)	V				
	0	aseptic procedures (Guide, pp 118-119)	V	/			
	0	autoclave monitoring procedures (Guide, pp 119, 145)	N	/			
	0	storage of autoclaved materials (Guide, p 145)	V				
•	Ha	azardous Agent Containment: NEW					
	0	facility adheres to APHIS, USDA and CDC Select Agent Regulations and other federal, state and local regulations including security measures ( <i>Guide</i> , <u>p 148</u> ) [must]	$\checkmark$	-			
•	Be	ehavioral Studies: NEW					
	0	facility minimizes airborne transmission of noise and ground-borne transmission of vibration ( <i>Guide</i> , $p$ 149)	V	-			
	0	floor coverings reduce sound transmission ( <i>Guide</i> , <u>p 149</u> )	V	-			
	0	testing equipment allows for surface disinfection (Guide, p 150)	V				
	0	components that cannot be cleaned are not in ready contact with animals and kept covered when not in use ( <i>Guide</i> , $p \ 150$ )	$\checkmark$	,			
	~	housing areas are contiguous with testing areas when appropriate (Guide, p 150)	V				

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## **III. Semiannual Program Review and Facility Inspection Report**

Date: Members in Attendance:			
Deficiency Category* √ Location	Deficiency and Plan for Correction	Responsible Correction Schedule Party and Interim Status	Date Complete

 $\mathbf{A} = acceptable$ 

 $\mathbf{M} = \text{minor deficiency}$ 

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**NA** = not applicable

Check if repeat deficiency