### 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 (<u>Policy</u>), section <u>IV.B.1.-2.</u>, 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 (<u>Guide</u>) 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.nlh.gov.

Semiannual Checklist

### **Semiannual Facility Inspection Checklist**

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

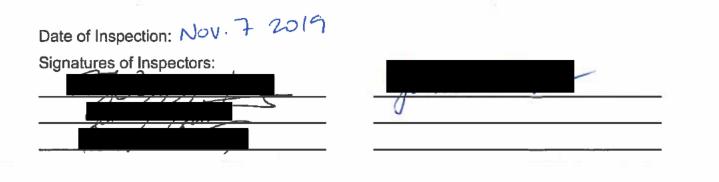
Date: November 7, 2019 Location: Mark Jefferson Science Complex

No deficiencies noted in the following areas unless marked by asterisk:

602	Storage
603	Procedural
604	Equipment storage
605	Storage
606	Procedure room – empty
607	Cage wash – Dirty side
608	Animal housing – rats
609	Access room for washer
610	Cage washer access
611	Cage wash – clean side 🔭
612	Animal housing – mice
613	Procedure room
614	Storage
615	Housing room
616	Surgery – Preparation room – Not in use
616B	Surgery – Operating Room – Non-survival

Notes:

616B: If rodent surgery (including non-survival) is required for experimental purposes, the isoflurane vaporizer should be calibrated and used with an activated charcoal scavenging system.



# Approved by EMU-IACUC, December 13, 2019

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### **I. Semiannual Facility Inspection Checklist**

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

### Date: November 7, 2019

# Location: Mark Jefferson Science Complex

	Location:	<b>A</b> *	145	S	5	N
		1				<u> </u>
		1		-		+
	<ul> <li>separation of species (Guide, p 111)</li> </ul>	1				-
	<ul> <li>separation by disease status (Guide, p 111)</li> </ul>					+
	<ul> <li>security and access control (Guide, p 151)</li> </ul>	1				-
	Construction:	1.0				1
	o corridors (Guide, p 136)	1				-
	<ul> <li>animal room doors (Guide, p 137)</li> </ul>	1				Ļ
_	<ul> <li>exterior windows (Guide, p.137)</li> </ul>	1				1
	<ul> <li>floors (Guide, p 137)</li> </ul>	1				
	o drainage (Guide, p 138)	1				
	<ul> <li>walls and ceilings (Guide, p 138)</li> </ul>	1				
	<ul> <li>heating ventilation and air conditioning (Guide, p.139)</li> </ul>	1				
	<ul> <li>power and lighting (Guide, p 141)</li> </ul>	1				
	o noise control (Guide, p 142)	1				T
	<ul> <li>vibration control (Guide, p 142)</li> </ul>	1				1
-	<ul> <li>environmental monitoring (Guide, p 143)</li> </ul>	1	ŕ		1	t
	Room/Cage:					1
	<ul> <li>temperature and humidity (Guide, p 43)</li> </ul>	1		1	-	T
		1				t
		1				÷
	<ul> <li>illumination (Guide, p.47)</li> </ul>	1				+
-	o noise and vibration (Guide, p 49)	1	1			-
	Primary Enclosure:	1.		T		-
_	<ul> <li>space meets physiologic, behavioral ', and social" needs (Guide, pp 51, 55-63)</li> </ul>	1				+
	<ul> <li>secure environment provided (Guide, p 51)</li> </ul>	1		-	ļ	+
_	<ul> <li>durable, nontoxic materials in good repair and no risk of injury (Guide, p.51)</li> </ul>	1				1
_	<ul> <li>flooring is safe and appropriate for species (Guide, p 51)</li> </ul>	1				
	<ul> <li>adequate bedding and structures for resting, sleeping, breeding (Guide, p 52)</li> </ul>	1				
	<ul> <li>objective assessments of housing and management are made (Guide, p 52)</li> </ul>	1				
	<ul> <li>procedures for routine husbandry are documented (Guide, p.52)</li> </ul>	1				T
_	<ul> <li>socially housed animals can escape or hide to avoid aggression (Guide, p 55)</li> </ul>	1				Τ
	<ul> <li>cage height provides adequate clearance (Guide, p_56)</li> </ul>	1				
	<ul> <li>animals express natural postures, can turn around, access food and water, and</li> </ul>	-				Ť
	rest away from urine and feces (Guide, p 56) [must]	1				
	<ul> <li>rationale<sup>#</sup> for Guide/USDA space exceptions approved by IACUC and based on</li> </ul>	-				╈
	performance Indices (Guide, p.56)	1				
-				<del> </del>		1
		1	1	+		ľ
	behavior reasons (Guide, pp 58-59)		+			-
	<ul> <li>single housing of nonhuman primates is for shortest duration possible (Guide, p</li> </ul>					
	<u>60</u> )	-		+	-	Y
	<ul> <li>opportunities for release into larger enclosures is considered for single caged</li> </ul>					L
	nonhuman primates (Guide, p 60)				-	Y
	<ul> <li>agricultural animals are housed socially (Guide, p 60)</li> </ul>	_	-			1
	<ul> <li>food troughs and water devices for agricultural animals allow access for all</li> </ul>			1		ľ
	animals (Guide, p 60)					v
•	Environmental Enrichment, Behavioral and Social Management:	12.1				
	<ul> <li>structures and resources promote species typical behavior (Guide, pp 52-54)</li> </ul>	1				1
	<ul> <li>novelty of enrichment is considered (Guide, p 53)</li> </ul>	1				
	o species specific plans for housing including enrichment, behavior and activity are	1			-	T
	developed and reviewed regularly by IACUC, researchers and veterinarian	1		1		

			1	the second second		-
_		(Guide, pp.53, 58, 60, 63)	-			
	0	animal care personnel receive training to identify abnormal animal behaviors	1			
		(Guide, p 53)	-			
	0	stability of pairs or groups is monitored for incompatibility (Guide, p.64)	1			
	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)	1			-
	0	additional enrichment for single housed animals is provided (Guide, p 64)	1	- 3		
	o	single housing is reviewed regularly by IACUC and veterinarian (Guide, $p 64$ )	1			
	0	habituation to routine procedures is part of enrichment program (Guide, $p = 64$ )	1			
	and the same discount of	eltered or Outdoor Housing: (e.g., barns, corrals, pastures, islands)	1-			
-		weather protection and opportunity for retreat ( <i>Guide</i> , p 54) [must]	1		1	-
	0				ľ,	-
	0	appropriate size (Guide, p 54)				_
	0	ventilation and sanitation of shelter (no waste/moisture build-up) (Guide, p 54)			1	-
	0	animal acclimation (Guide, p 55)			1	_
	0	social compatibility (Guide, p. 55)			1	
	0	roundup/restraint procedures (Guide, p 55)			1	
	0	appropriate security (Guide, p 55)			1	
	Na	turalistic Environments:				
	0	animals added /removed with consideration of effect on group (Guide, p 55)			1	
	0	adequate food, fresh water, and shelter ensured (Guide, p 55)	-	0.00000-001	1	-
		od:				-
		feeding schedule and procedures including caloric intake management (Guide, pr	1			-
	0					
	-	<u>65-67</u> )	1			-
	0	contamination prevention (Guide, p.65)	-			
	0	vendor quality control (Guide, p 66)	1			_
-	0	storage in sealed containers (Guide, p 66)	1			
	0	expiration date labeling (Guide, p 66) (Procedure room 614)	1			_
	0	vermin control ( <i>Guide</i> , <u>p 66</u> )	1			
	0	rotation of stocks (Guide, p 66)	1			
	Wa	ater:				
	0	ad libitum unless justified (Guide, pp 67-68)	1			
	0	QC procedures (Guide, pp 67-68)	1			
	Be	dding and Nesting Materials:				1
-	0	species appropriate (Guide, pp 68-69)	1			-
	0	keeps animals dry ( <i>Guide</i> , pp 68-69)	1			
	0	QC procedures (Guide, pp 68-69)	1			
	-	minimizes scientific variables (Guide, pp 68-69)	1			
	0				-	-
•		nitation:	17			-
	0	frequency of bedding/substrate change (Guide, p 70)	1		-	
	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)	1			
•	Wa	aste Disposal:				
	0	procedures for collection (Guide, pp 73-74)	1	100	20	
	0	procedures for storage and disposal (Guide, pp 73-74)	1			
	0	hazardous wastes are rendered safe before removal from facility (Guide, pp 73-	1			
		74) [must]		11		
-	0	animal carcasses (Guide, pp 73-74)	1			
		st Control:	-1			-
1000		regularly scheduled (Guide, p 74)	1			-
	0		1			1
	0					
-	E.	(Guide, p 74)				-
•		nergency, Weekend, and Holiday Animal Care:	1		- provin	4
	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 (Guide, p 143)	1			
	0	veterinary care available after hours, weekends, and holidays (Guide, pp 74,	1			
		114) [must]				
	0	a disaster plan that takes into account both personnel and animals (Guide, p 75)	1			
Sen		val Checklist v3/8/2012	Astron		4	

•	Identification:		
	<ul> <li>cage/rack cards contain required information (Guide, p 75)</li> </ul>	/	
	<ul> <li>genotype information included and standardized nomenclature used when applicable (Guide, p 75)</li> </ul>		
	Recordkeeping:		
	<ul> <li>clinical records accessible and contain appropriate information (Guide, pp.75-76)</li> </ul>	1	
	<ul> <li>records are provided when animals are transferred between institutions (Guide, p 75)</li> </ul>	/	
•	Breeding Genetics and Nomenclature:		
	<ul> <li>appropriate genetic records, management and monitoring procedures (Guide, p 76)</li> </ul>		
	<ul> <li>phenotypes that affect wellbeing are reported to IACUC and effectively managed (Guide, p 77)</li> </ul>	/	
,	Storage:	1	
	<ul> <li>adequate space for equipment, supplies, food, bedding and refuse (Guide, p 141)</li> </ul>	1	
	<ul> <li>bedding in vermin-free area and protected from contamination(Guide, p 141)</li> </ul>	1	
	<ul> <li>food in vermin-free, temperature and humidity controlled area and protected from contamination (<i>Guide</i>, p 141)</li> </ul>	1	
	o refuse storage is separate (Guide, p 141)	1	
	<ul> <li>carcass and animal tissue storage is separate, refrigerated below 7°C and cleanable (Guide, p 141)</li> </ul>	1	
•	Personnel:		
	<ul> <li>adequate space for locker rooms, administration and training (Guide, p 135)</li> </ul>	1	

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

### Aquatic Animal Housing and Support Areas

### Date: November 7, 2019 Location: Terrestrial and Aquatic Ecology Research Facility

L	ocation:	<b>A</b> *		S	1	
	animal areas separate from personnel areas (Guide, p 134)	1	1			T
	separation of species (Guide, p.111)	1				
	separation by disease status (Guide, p 111)	1				
	security and access control (Guide, p 151)	V	2			t
	Construction:	Louise				
	corridors (Guide, p_136)	1				Г
0		1	1100			T
-		1				÷
0		1		1		÷
		1				t
0		1				+
C		1				
C						<u> </u>
0	power and lighting (Guide, pp 141, 150)	1				1
C	noise control ( <i>Guide</i> , p 142)	1				
C	vibration control (Guide, p.142)	1				
C	environmental monitoring (Guide, p 143)	1				
1	Vater Quality:					
0	standards for acceptable quality are established (Guide, p.78)	1				1
0	chlorine, chloramines, chemical, and reactive bioproducts are removed or					T
	neutralized prior to use in aquatic systems (Guide, pp78, 86) [must]	1				L
L	ife Support System:	-				
	water source is based on appropriate controls and research requirements (Guide,	1				1
	p 79)	4				1
	biofilter is of sufficient size to process bioload (Guide, p 80) [must]	1	1	1		t
	Temperature, Humidity and Ventilation/Illumination/Noise and Vibration:					1
		V	í	-		T
			-			t
0		1				÷
C		1	-			-
	noise and vibration (Guide, pp 49, 81)	1	1.10			
I	Primary Enclosure:		<u>.</u>			1
0	allows for normal physiological and behavioral needs (Guide, p 82)	1				L
0	allows social interaction for social species (Guide, p.82)	1				
	provides a balanced, stable environment (Guide, p.82)	1				1
0	provides appropriate water quality and monitoring (Guide, p.82)	1				L
0	allows access to food and waste removal (Guide, p.82)	1				
0		1				
0		1				
0	constructed of nontoxic materials (Guide, p.82)	1				
0	prevents electrical hazards (Guide, p 82)	1			1	
c	space needs of species are evaluated by IACUC during program evaluations and facility inspections ( <i>Guide</i> , p 83)	1				Ī
	Environmental Enrichment, Social Housing, Behavioral and Social Manageme	mt.	2			1
	the second s	1	1		Ť.	1
						5
	<ul> <li>semi-aquatic reptiles are provided terrestrial areas (<i>Guide</i>, <u>p 83</u>)</li> <li>handling is kept to a minimum and appropriate techniques are in place at facility</li> </ul>	1	-			ť
0	or protocol level (Guide, p 84)	1				
C	nets are cleaned, disinfected and managed to avoid contamination of systems ( <i>Guide</i> , p 84)	1				
1	Food:					
0	storage to prevent contamination, preserve nutrients and prevent pests (Guide, p	2	-			T
	84)		1	1.	i	

	<ul> <li>adequate space for locker rooms, administration and training (Guide, p 135)</li> <li>acceptable</li> </ul>	1								
	Personnel:									
	cleanable (Guide, p 141)	/								
(	<ul> <li>carcass and animal tissue storage is separate, refrigerated below 7°C and</li> </ul>									
(	o refuse storage is separate (Guide, p 141)	1								
	from contamination (Guide, p 141)	1								
(	o food in vermin-free, temperature and humidity controlled area and protected									
(	substrate protected from contamination (Guide, p_141)	1								
	141)	1								
(	adequate space for equipment, supplies, food, substrate and refuse (Guide, p									
	Storage:									
(	records kept on feeding, nonexpired food supplies, live cultures (Guide, p 88)	1								
	water quality parameters and frequency of testing recorded (Guide, p 88)	1								
. 1	Recordkeeping:									
	applicable (Guide, pp 75, 87)									
	genotype information included and standardized nomenclature used when	1								
	cage/tank cards contain required information (Guide, pp 75, 87)	1								
. 1	Identification:	the second second								
	[must]									
	veterinary care available after hours, weekends, and holidays (Guide, pp 74, 114)	1								
		1								
	provision for accessible contact information (Guide, pp 74, 87)	1								
	care provided by qualified personnel every day (Guide, pp 74, 87)	1								
Emergency, Weekend, and Holiday Animal Care:										
	documented program including control of pests and insecticide use (Guide, p 74)	1								
	regularly scheduled (Guide, p 74)	1								
	Pest Control:									
0	animal carcasses (Guide, pp 73-74)	1								
	74) [must]									
	hazardous wastes are rendered safe before removal from facility (Guide, pp 73-									
	procedures for collection ( <i>Guide</i> , pp 73-74)	1								
	Scienting and disinfection of macroenvironment (Guide, p.86) Waste Disposal:									
		1								
0	frequency of tank/cage cleaning and disinfection is determined by water quality, permits adequate viewing and health monitoring ( <i>Guide</i> , p 86)									
	Sanitation, Cleaning and Disinfection	1								
	species (Guide, p 85)	V								
¢	amount, type and presentation of substrate is appropriate for the system and the									
	Substrate:		[]							
	a nutritionally complete diet is provided (Guide, p 84)	1								
	(Guide, p 84)									
0	84) storage times are based on manufacturer recommendations or accepted practice	1								
	delivery ensures access to all , minimizing aggression and nutrient loss (Guide, p	×								

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 S = significant deficiency (is or may be a threat to animal health or safety)
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 NA = not applicable

#### Cagewash

#### Date: November 7, 2019 Location: Mark Jefferson Science Complex

		A*	Μ	S	С	NA
Co	instruction and Operation:					
٥	dedicated central area for sanitizing cages and equipment is provided (Guide, $p$ 143)	1				
0	cage-washing equipment meets need (Guide, p 143)	1				
0	doors, windows, floors, drainage, walls, ceilings (Guide, pp 136-138)	1				
0	convenient to animal areas/waste disposal (Guide, p 143)	1				
0	ease of access (including door size) facilitates use (Guide, p 143)	1				
0	sufficient space for staging and maneuvering (Guide, p 143)	1				
0	safety precautions/clothing/equipment used for waste disposal/prewash/acid wash ((Guide, p 143)	1				
0	traffic flow clean to dirty with no contamination of clean equipment by dirty equipment and appropriate air pressurization (Guide, p 143)	1		1		
0	insulation and/or sound attenuation present as needed (Guide, p 143)	1				-
0	utilities are appropriate (Guide, p 143)	1				
0	ventilation meets heat and humidity load (Guide, p 143)					
0	safety features (e.g., SOPs, warning signs, eyewash stations) are in use ( <i>Guide</i> , p 143)	1				
0	functioning safety devices to prevent entrapment in washer/sterilizers (Guide, $\underline{p}$ 143)	1				
0		1				
0	appropriate clean cage storage (Guide, p 141)	1				l,

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**NOTES:** Recommend placing additional signage on outside of rack washer that identifies all of the safety features of the equipment.

#### **Special Facilities: Aseptic Surgery - Survival**

### Date: November 7, 2019

### **Location: Mark Jefferson Science Complex**

		A*	М	S	С	NA
• Ge	neral Considerations:					
0	location minimizes traffic/contamination (Guide, p 144)				1	/
o	functional components (surgical support, animal preparation, surgeon scrub, operating room, postoperative recovery) are designed and separated (physically or otherwise) ( <i>Guide</i> , p 144)		=			/
¢	appropriate drug storage, control, expiration date monitoring ( <i>Guide</i> , <u>pp 115</u> , 122)					/
0	safe sharps disposal system (Guide, p 74)				-	/
0	adequate records of anesthesia and perioperative care (Guide, p 122)					/
0	aseptic procedures in use for all survival surgery (Guide, pp 118-119)				1	/
• Op	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 Guide requirements (Guide, p.145)					/
0	lighting safe and appropriate (Guide, p.145)					
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)					
	<b>imal Preparation:</b> contains large sink to facilitate cleaning of animal and erative site ( <i>Guide</i> , p 145)					/
	rgeon Scrub: outside operating room, non-hand-operated sink (Guide, p 145)					/
• Po	stoperative Recovery: allows adequate observation, easily cleaned, supports ysiologic functions, minimizes risk of injury ( <i>Guide</i> , p 145)					/
	essing Area: place for personnel to change (Guide, p 145)					1
	ceptable	1				

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

#### Date: November 7, 2019 Location: Mark Jefferson Science Complex

				A <sup>*</sup>	M	S	С	NA
	•	Ge	neral Considerations:				_	1.1
		0	labs used to house animals only when scientifically required and limited to minimum period necessary (Guide, p 134)					1
		0	drug storage, control, and expiration dates (Guide, pp 115, 122)					1
		0	sharps disposal (Guide, p 74)				-	1
		0	anesthetic monitoring (Guide, p 120)			-		1
		0	scavenging of anesthetic gases (Guide, p 21)					1
		0	safety features (e.g., SOPs, safety signs, eyewash stations, secure gas cylinders) are in place ( <i>Guide</i> , p 19)					1
		0	carcass disposal (Guide, pp 73-74)					1
		Ad	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)					1111
		0	records of peri-operative care (Guide, p.120)					V
		0	aseptic procedures (Guide, pp 118-119)					1
		0	autoclave monitoring procedures (Guide, pp 119, 145)					V
		0	storage of autoclaved materials (Guide, p 145)				-	V.
		0	cold sterilization procedures are appropriate (Guide, p 119)					1
	•	In	naging/Whole Body Irradiation: NEW.		1232	10.00	_	
		0	location of resource limits contamination risk (Guide, p 147)					1
		0	appropriate transportation methods are in place (Guide, p 147)					$\checkmark$
		0	gas anesthesia provision, scavenging and monitoring are appropriate (Guide, p 147)					1
		0	appropriate sensors and ventilation are provided for cryogen gases (Guide, p 147) [must]					1
		0	imaging console is located away from radiation source (Guide, p 147)		1	I		1
	•	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> , p 148) [must]					/
		Be	ehavioral Studies: NEW					
		0	facility minimizes airborne transmission of noise and ground-borne transmission of vibration ( <i>Guide</i> , p 149)					1
		0	floor coverings reduce sound transmission (Guide, p 149)					1
		0	testing equipment allows for surface disinfection (Guide, p 150)					$\checkmark$
		0	components that cannot be cleaned are not in ready contact with animals and kept covered when not in use (Guide, p 150)					1
		0					1	1
*	A -	20	centable					

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

# I. Semiannual Program Review Checklist<sup>1</sup>

### **Institutional Policies and Responsibilities**

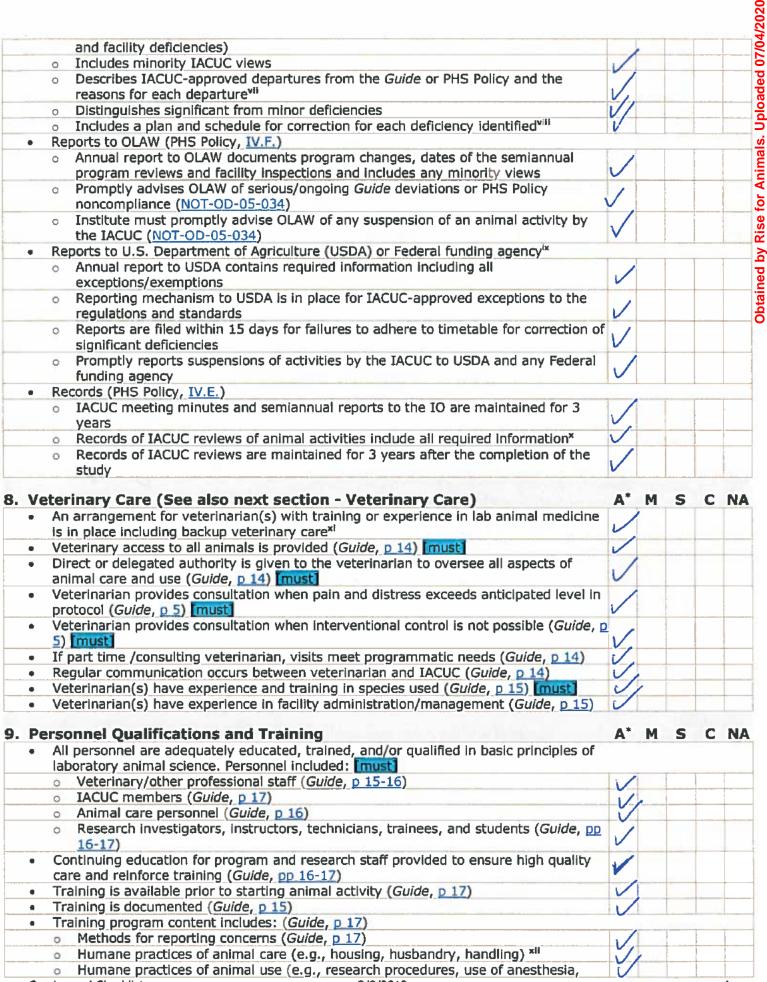
### Date:

1.	Semiannual Program Review Checklist					
In	stitutional Policies and Responsibilities					
Da	te:					
	Animal Care and Use Program NEW	A*	м	S	с	NA
	<ul> <li>Responsibility for animal well-being is assumed by all members of the program (Guide, p 1) [must]</li> </ul>		141	9	C	NA
	<ul> <li>IO has authority to allocate needed resources (Guide, p_13)</li> </ul>	1				
	<ul> <li>Resources necessary to manage program of veterinary care are provided (Guide, p 14) [must]</li> </ul>	1				
	<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>	V				
	<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>	$\checkmark$				
	<ul> <li>Inter-institutional collaborations are described in formal written agreements (<i>Guide</i>, <u>p</u> <u>15</u>)</li> </ul>	$\checkmark$				
	<ul> <li>Written agreements address responsibilities, animal ownership, and IACUC oversight (Guide, p 15)</li> </ul>	$\checkmark$				
2.	Disaster Planning and Emergency Preparedness NEW.	<b>A</b> *	М	S	С	NA
	<ul> <li>Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p 75) [must]</li> </ul>					
	<ul> <li>Plans include provisions for euthanasia (Guide, p 35) [must]</li> </ul>	V				
	<ul> <li>Plans include triage plans to meet institutional and investigators' needs (Guide, p. 35)</li> </ul>	V				
	<ul> <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>	V				
	<ul> <li>Plans describe preservation of critical or irreplaceable animals (<i>Guide</i>, <u>p 35</u>)</li> <li>Plans include essential personnel and their training (<i>Guide</i>, <u>p 35</u>)</li> </ul>		2 22 2 2 2			
	<ul> <li>Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i>, p 35)</li> </ul>	V			•	
	<ul> <li>Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (Guide, p 35)</li> </ul>	V	1			
з.	IACUC NEW	A*	м	s	С	NA
	<ul> <li>Meets as necessary to fulfill responsibilities (Guide, p 25) [must]</li> </ul>	V				
	<ul> <li>IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (Guide, p.26) [must]</li> </ul>	V				
	<ul> <li>Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)</li> </ul>	$ert \mathcal{V}_{\mathcal{I}}$		ļ		
L	<ul> <li>IACUC evaluates the effectiveness of training programs (Guide, p 15)</li> </ul>	V				
4.	IACUC Protocol Review - Special Considerations	A*	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 (Guide, p 28)</li> </ul>	1	V			
	<ul> <li>For genetically modified animals, enhanced monitoring and reporting is in place (Guide, p 28)</li> </ul>	1				
	<ul> <li>Restraint devices are justified in the animal use protocols (Guide, p 29) [must]</li> </ul>	V				
	<ul> <li>Alternatives to physical restraint are considered (Guide, p 29)</li> </ul>	V,	1			
	Period of restraint is the minimum to meet scientific objectives ( <i>Guide</i> , <u>p.29</u> )	V				
	<ul> <li>Training of animals to adapt to restraint is provided (Guide, p 29)</li> <li>Animals that fail to adapt are removed from study (Guide, p 29)</li> </ul>	V	-			
	<ul> <li>Animals that fail to adapt are removed from study (<i>Guide</i>, <u>p 29</u>)</li> <li>Appropriate observation intervals of restrained animals are provided (<i>Guide</i>, <u>p 29</u>)</li> </ul>	1	-	-		
	<ul> <li>Appropriate observation intervals of restrained animals are provided (Guide, p.29)</li> <li>Veterinary care is provided if lesions or illness result from restraint (Guide, p.30)</li> <li>[must]</li> </ul>	V				

<ul> <li>All IACUC members should receive:         <ul> <li>Formal orientation to institution's program (<i>Guide</i>, p 17)</li> <li>Training on legislation, regulations, guidelines, and policies (<i>Guide</i>, p 17)</li> <li>Training on how to inspect facilities and labs where animal use or housing occurs (<i>Guide</i>, p 17)</li> <li>Training on how to review protocols as well as evaluate the program (<i>Guide</i>, p 17)</li> <li>Ongoing training/education (<i>Guide</i>, p 17)</li> </ul> </li> </ul>		<ul> <li>Explanations of purpose and duration of restraint are provided to study personnel</li> </ul>	1				
<ul> <li>Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide</i>, p. 30)</li> <li>Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i>, p. 31)</li> <li>Animais on food/fluid restriction are monitored to ensure nutritional needs are met (<i>Guide</i>, p. 31)</li> <li>Daily written records are maintained for food/fluid restricted animals (<i>Guide</i>, p. 31)</li> <li>Daily written records are maintained for food/fluid restricted animals (<i>Guide</i>, p. 31)</li> <li>Non-pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i>, p. 31)</li> <li>Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (<i>Guide</i>, p. 32)</li> <li>Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (<i>Guide</i>, p. 32)</li> <li>Disposition plans are considered for species removed from the wild (<i>Guide</i>, p. 32)</li> <li>Disposition plans are considered for species removed from the wild (<i>Guide</i>, p. 32)</li> <li>Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide</i>, p. 24)<sup>n</sup></li> <li>IACUC aducts semiannual evaluations of institutional animal care and use program are provided (<i>Guide</i>, p. 24)<sup>n</sup></li> <li>IACUC conducts semiannual evaluations of institutional animal care and use program are provided (<i>Guide</i>, p. 24)<sup>n</sup></li> <li>IACUC conducts semiannual evaluations of institutional animal care and use program are provided (<i>Guide</i>, p. 24)<sup>n</sup></li> <li>Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, p. 22)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (HS Policy, IV.B.)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (<i>HS Policy</i>, <i>IV.B.</i>)</li> <li>Procedures are in place for review and approval of significant changes to appro</li></ul>	8	<ul> <li>Multiple surgical procedures on a single animal are justified and outcomes evaluated</li> </ul>	1				
<ul> <li>Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i>, p. 30)</li> <li>Animals on food/fluid restriction are monitored to ensure nutritional needs are met (<i>Guide</i>, p. 31)</li> <li>Daily written records are maintained for food/fluid restricted animals are recorded at least weekly (<i>Guide</i>, p. 31)</li> <li>Daily written records are maintained for food/fluid restricted animals (<i>Guide</i>, p. 31)</li> <li>Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i>, p. 21)</li> <li>Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (<i>Guide</i>, p. 31)</li> <li>Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulation plans are considered for species removed from the wild (<i>Guide</i>, p. 32)</li> <li>Disposition plans are considered for species removed from the wild (<i>Guide</i>, p. 32)</li> <li>Toe-clipping only used when no alternative, performed aseptically and with pain relief (<i>Guide</i>, p. 25)</li> </ul> 5. IACUC Membership and Functions <ul> <li>I ACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i>, p. 24)<sup>4</sup></li> <li>I ACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)</li> <li>I ACUC conducts semiannual expections of institutional animal facilities (PHS Policy, IV.B.)</li> <li>Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, p. 24)<sup>4</sup></li> <li>Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (<i>Guide</i>, p. 27–32)</li> <li>Requests for exemptions from major survival surgical procedure restrictions are made to USDA/</li></ul>		<ul> <li>Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide,</li> </ul>	V				
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<ul> <li>IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)</li> <li>Members Include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide</i>, p 24)<sup>#</sup></li> <li>IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i>, p 14)</li> <li>IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)</li> <li>Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)</li> <li>IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)</li> <li>Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, p 23) must</li> <li>Reviews and investigates concerns about animal care and use at institution<sup>#II</sup> (PHS Policy, IV.B.)</li> <li>Procedures are in place for review, approval, and suspension of animal activities<sup>IV</sup> (PHS Policy, IV.B.)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)</li> <li>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)</li> <li>Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS<sup>*</sup> (<i>Guide</i>, p 30) must</li> <li>At* M S C NA</li> </ul>	5.	IACUC Membership and Functions	A*,,	м	s	С	NA
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are provided (Guide, p. 14)       V         IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)       V         Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)       V         IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)       V         Methods for reporting and investigating animal welfare concerns are in place (Guide, p. 23) must       V         Reviews and investigates concerns about animal care and use at institution <sup>III</sup> (PHS Policy, IV.B.)       V         Procedures are in place for review, approval, and suspension of animal activities <sup>IV</sup> (PHS Policy, IV.B.)       V         Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)       V         Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (Guide, p. 27-32)       V         Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS <sup>V</sup> (Guide, p. 30) must       A <sup>*</sup> M S C NA         All IACUC members should receive:       A <sup>*</sup> M S C NA		<ul> <li>animal user (Guide, p.24)<sup>#</sup></li> <li>IACUC authority and resources for oversight and evaluation of institution's program</li> </ul>	V				
<ul> <li>(PHS Policy, IV.B.)</li> <li>Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)</li> <li>IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)</li> <li>Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, p. 23) [must]</li> <li>Reviews and investigates concerns about animal care and use at institution<sup>III</sup> (PHS Policy, IV.B.)</li> <li>Procedures are in place for review, approval, and suspension of animal activities<sup>IV</sup> (PHS Policy, IV.B.)</li> <li>Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)</li> <li>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)</li> <li>Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS* (<i>Guide</i>, p. 30) [must]</li> <li>A* M S C NA</li> </ul>		are provided (Guide, p 14)	1				
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2.6. IACUC Training       NEW       A* M S C NA         %       • All IACUC members should receive:       • All IACUC members should receive:	~	<ul> <li>Policies are in place for special procedures (e.g., genetically modified animals,</li> </ul>	1				
2.6. IACUC Training       NEW       A* M S C NA         %       • All IACUC members should receive:       • All IACUC members should receive:	Obtaii	restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) ( <i>Guide</i> , p 27-32)	V				
2.6. IACUC Training       NEW       A* M S C NA         %       • All IACUC members should receive:       • All IACUC members should receive:	ned b						V
<ul> <li>All IACUC members should receive:         <ul> <li>Formal orientation to institution's program (<i>Guide</i>, p.17)</li> <li>Training on legislation, regulations, guidelines, and policies (<i>Guide</i>, p.17)</li> <li>Training on how to inspect facilities and labs where animal use or housing occurs (<i>Guide</i>, p.17)</li> <li>Training on how to review protocols as well as evaluate the program (<i>Guide</i>, p.17)</li> <li>Ongoing training/education (<i>Guide</i>, p.17)</li> </ul> </li> <li>Training on how to review protocols as well as evaluate the program (<i>Guide</i>, p.17)</li> <li>Ongoing training/education (<i>Guide</i>, p.17)</li> <li>Ongoing training/education (<i>Guide</i>, p.17)</li> <li>Semiannual report to the IO (PHS Policy, IV.B.)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program</li> <li>Semiannual Checklist</li> <li>V3/8/2012</li> </ul>	≺ <b>⊼6</b> .		<b>A</b> *	М	S	С	NA
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<ul> <li>Training on how to review protocols as well as evaluate the program (<i>Guide</i>, p.17)</li> <li>Ongoing training/education (<i>Guide</i>, p.17)</li> <li>Ongoing training/education (<i>Guide</i>, p.17)</li> <li>A* M S C NA</li> <li>Semiannual report to the IO (PHS Policy, IV.B.)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program</li> <li>Semiannual Checklist</li> <li>V3/8/2012</li> <li>3</li> </ul>	Anim	<ul> <li>Training on how to inspect facilities and labs where animal use or housing occurs</li> </ul>		V			
Ongoing training/education ( <i>Guide</i> , p 17)     A* M S C 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     Semiannual Checklist v3/8/2012 3	als	<ul> <li>Training on how to review protocols as well as evaluate the program (Guide, p 17)</li> </ul>		V.			1
A* M       S       C       NA         • Semiannual report to the IO (PHS Policy, IV.B.)       •	ç		•	V			
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     Semiannual Checklist v3/8/2012 3	<b>0</b> <b>0</b> <b>7</b> .	IACUC Records and Reporting Requirements <sup>vi</sup>	A*	м	S	С	NA
o       Submitted to IO every 6 months         o       Compiles program review and facility inspection(s) results (includes all program         Semiannual Checklist       v3/8/2012       3	e						
o       Compiles program review and facility inspection(s) results (includes all program         Semiannual Checklist       v3/8/2012         3	0		V			1	1
4 Semiannual Checklist v3/8/2012 3	7/0	<ul> <li>Compiles program review and facility inspection(s) results (includes all program</li> </ul>	V				
	4/2020	Semiannual Checklist v3/8/2012					3

Explanations of purpose and duration of restraint are provided to study personnel

#### Submitted to IO every 6 months 0



Semiannual Checklist

4

	pre- and post-operative care, aseptic surgical techniques and euthanasia (Guide, p 17) <sup>xiii</sup>	1				
c	Descent the stick we should then relativized supplements a second state well descube	V				
c	Research/testing methods that minimize animal pain or distress (PHS Policy, IV.A.1.g.)	1				
c	the file a days as the including assess to OCHA showing because where	V.				
c	A implement use locialation (Cuide p 17)	$\checkmark$				
0		V				
c	Tables of a final second Theory Dia (Cuide a 17)	V		<u></u>		
o. (	Occupational Health and Safety of Personnel	A*	м	s	С	NA
• F	Program is in place and is consistent with federal, state, and local regulations (Guide, 0.17) [must]	/				
	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)	V				
• (	Changing, washing, and showering facilities are available as appropriate (Guide, p 19)					
	lazardous facilities are separated from other areas and identified as limited access	1				
	Guide, p 19)	V		-		
• F	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) ( <i>Guide</i> , <u>p 20</u> )					
• F	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) (Guide, p 20)	V				
	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place (Guide, p 21)	V				
	Personal Protective Equipment for the work area is appropriate and available (Guide, p 21)	~				
• F	Program for medical evaluation and preventive medicine for personnel includes:	- 1			_	
	Pre-employment evaluation including health history (Guide, p 22)	V				
c	Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (Guide, p 22)	V				
C	<ul> <li>Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23)</li> </ul>	V				
C	<ul> <li>Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p 23)</li> </ul>	V				
(	<ul> <li>Promotes early diagnosis of allergies including preexisting conditions (Guide, p 22)</li> </ul>	1				
c	<ul> <li>Considers confidentiality and other legal factors as required by federal, state and local regulations (Guide, p 22) [must]</li> </ul>	$\checkmark$				
(	If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) [must]	1				
	Waste anesthetic gases are scavenged (Guide, p 21)	~				
+ 1	Hearing protection is provided in high noise areas (Guide, p 22)	1		-		
•	Respiratory protection is available when performing airborne particulate work (Guide, 0 22)	~	-			
• 5	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)	V				1
(	<ul> <li>Training and implementation of procedures for bites, scratches, or injuries associated with macaques (<i>Guide</i>, p 23)</li> </ul>	1				
(	PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p 21)	V				
(	<ul> <li>Injuries associated with macaques are carefully evaluated and treatment implemented (<i>Guide</i>, p 23)</li> </ul>	1				
• (	Occupational safety and health of field studies is reviewed by OSH committee or office (Guide, p 32)	V				
<b>1.</b>	Personnel Security	A*	м	S	С	NA
• 1	Preventive measures in place include pre-employment screening, and physical and IT security (Guide, p 23)	$\checkmark$				
						-
Semi	annual Checklist v3/8/2012					5

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

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

### **Veterinary Care**

### Date:

(	Clinical Care and Management	<b>A</b> *	М	S	С	NA
	<ul> <li>Veterinary program offers high quality of care and ethical standards (Guide, p 105)</li> <li>[must]</li> </ul>	1				
,	<ul> <li>Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p 106)</li> </ul>	1				
	<ul> <li>Veterinarian provides oversight to surgery and perioperative care (Guide, p 106)</li> </ul>	V				
,	<ul> <li>Veterinary care program is appropriate for program requirements (Guide, pp 113-114)</li> </ul>	1				
	<ul> <li>Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (<i>Guide</i>, p.114)</li> </ul>	~				
	<ul> <li>Procedures to triage and prioritize incident reports are in place (Guide, p 114)</li> </ul>	1				12
	<ul> <li>Procedures are in place to address:</li> </ul>			_		
	<ul> <li>Problems with experiments to determine course of treatment in consultation with investigator(Guide, p 114)</li> </ul>	/				
	<ul> <li>Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114)</li> </ul>	1				
	• Veterinary review and oversight of medical and animal use records (Guide, p 115)	1				-
	<ul> <li>Procedures established for timely reporting of animal injury, illness, or disease (Guide, p 114) [must]</li> </ul>	1				
	<ul> <li>Procedures established for veterinary assessment, treatment, or euthanasia (Guide, p 114) [must]</li> </ul>	V				
	<ul> <li>Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p 114)</li> <li>[must]</li> </ul>	1				
	Animal Procurement and Transportation/Preventive Medicine	<b>A*</b>	м	s	С	N
	<ul> <li>Procedures for lawful animal procurement are in place (Guide, p_106) [must]</li> </ul>	1				T
	<ul> <li>Sufficient facilities and expertise are confirmed prior to procurement (Guide, p 106)</li> </ul>	V.				
	<ul> <li>Procurement is linked to IACUC review and approval (Guide, p 106)</li> </ul>	V				
	<ul> <li>Random source dogs and cats are inspected for identification (Guide, p 106)</li> </ul>					L
	<ul> <li>Population status of wildlife species is considered prior to procurement (Guide, p 106)</li> </ul>	1				1
	<ul> <li>Appropriate records are maintained on animal acquisition (Guide, p.106)</li> </ul>	./				
	<ul> <li>Animal vendors are evaluated to meet program needs and quality (<i>Guide</i>, p 106)</li> </ul>	1				1
	<ul> <li>Breeding colonies are based on need and managed to minimize numbers (<i>Guide</i>, p 107)</li> </ul>	V				
	<ul> <li>Procedures for compliance with animal transportation regulations, including international requirements, are in place (Guide, p 107) [must]</li> </ul>	V				
	<ul> <li>Transportation is planned to ensure safety, security and minimize risk (Guide, p 107)</li> </ul>	2				L
	<ul> <li>Movement of animals is planned to minimize transit time and deliveries are planned to</li> </ul>	V				
	<ul> <li>Appropriate loading and unloading facilities are available (Guide, p 109)</li> </ul>	1	1			1
	<ul> <li>Environment at receiving site is appropriate (Guide, p 109)</li> </ul>	V				1
	<ul> <li>Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) – AMACT Swidtince</li> </ul>	0	V			
	<ul> <li>Procedures in place for guarantine to include zoonoses prevention (Guide, p 110)</li> </ul>	V				1
	<ul> <li>Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110)</li> </ul>	V				
	<ul> <li>Procedures in place for stabilization/acclimation (Guide, pp 110-111)</li> </ul>	V.				1
	<ul> <li>Policies in place for isolation of sick animals (Guide, p 112)</li> </ul>	1				1
	<ul> <li>Program is in place for surveillance, diagnosis, treatment and control of disease to</li> </ul>	1		1		-
	include daily observation ( <i>Guide</i> , p 112)	V				
	<ul> <li>Diagnostic resources are available for preventive health program (Guide, p 112)</li> </ul>	V				
	Surgery	<b>A</b> *	М	s	С	N
	<ul> <li>Surgical outcomes are assessed and corrective changes instituted (Guide, p 115)</li> </ul>					V
	<ul> <li>ensure receiving personnel are available (<i>Guide</i>, pp 107- 108)</li> <li>Appropriate loading and unloading facilities are available (<i>Guide</i>, p 109)</li> <li>Environment at receiving site is appropriate (<i>Guide</i>, p 109)</li> <li>Policies in place on separation by species, source, and health status (<i>Guide</i>, pp 109, 111-112) — <i>AM</i> (<i>A Guide</i>)</li> <li>Procedures in place for quarantine to include zoonoses prevention (<i>Guide</i>, p 110)</li> <li>Quarantined animals from different shipments are handled separately or physically separated (<i>Guide</i>, p 110)</li> <li>Procedures in place for stabilization/acclimation (<i>Guide</i>, pp 110-111)</li> <li>Policies in place for sloation of sick animals (<i>Guide</i>, p 112)</li> <li>Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (<i>Guide</i>, p 112)</li> <li>Diagnostic resources are available for preventive health program (<i>Guide</i>, p 112)</li> <li>Surgery</li> <li>Surgical outcomes are assessed and corrective changes instituted (<i>Guide</i>, p 115)</li> <li>Researchers have appropriate training to ensure good technique (<i>Guide</i>, p 115)</li> <li>Semiannual Checklist</li> </ul>					L
	Semiannual Checklist v3/8/2012					7

- 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 (*Guide*, 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 (*Guide*, p 118)
- Aseptic technique is followed for survival surgical procedures (*Guide*, pp 118-119)
- Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (Guide, p 119)
- Procedures for monitoring surgical anesthesia and analgesia are in place (*Guide*, <u>p</u> <u>119</u>)
- 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)

## 4. Pain, Distress, Anesthesia and Analgesia

- 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 (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 (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 (*Guide*, p 122)
- Special precautions for the use of paralytics are in place to ensure anesthesia<sup>xiv</sup> (Guide, p 123)

# 5. Euthanasia

- 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 (Guide, p 124)
- Procedures and training are in place to ensure death is confirmed (Guide, p 124)
   [must]

# 6. Drug Storage and Control NEW

- Program complies with federal regulations for human and veterinary drugs(*Guide*, <u>p</u> / <u>115</u>) <u>must</u>
   Drug records and storage procedures are reviewed during facility inspections (*Guide*, <u>p</u> / <u>115</u>)
   Procedures are in place to ensure analgesics and anesthetics are used within expiration date (*Guide*, <u>p</u> 122) <u>must</u>
   Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (*Guide*, <u>p</u> 122)
  - 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

i.

 $\mathcal{V}$ 

C NA



S

C NA

A\*

M

A\* |

M

S