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DATE:	October 28, 2019
TO:	Stephen C. Welter Vice President for Research
VIA:	Rick Gulizia Asst. Vice President Research Support Services
FROM:	Todd Anderson, Chair Institutional Animal Care and Use Committee
SUBJECT:	Fall 2019 Semi-annual Facility Inspection and Program Review Reports

Our Institution adheres to the recommendations of the Guide, the PHS Policy, and the Animal Welfare Act and Regulations, all of which are used as a foundation for the development, implementation, and continual improvement of a comprehensive animal care and use program based on humane care and use of animals.

Subcommittees of the IACUC met to perform the facility inspections on October 1, 2019. The OLAW Semi-annual Facility Inspection Checklist (based on the 8<sup>th</sup> Edition *ILAR Guide for the Care and Use of Laboratory Animals*) was used as a guideline. The following definitions were used to determine the categories of compliance: A= acceptable; met or exceeded USDA and NIH standards; M= minor deficiency; items not affecting animal health or safety; S= significant deficiency (items that are or may be a direct threat to human or animal health and safety where animals are involved in the research); C=Change which will be submitted to OLAW; N/A=Not applicable. There is a list of minor deficiencies found during these inspections and which are outlined in the attached documents. These reports were discussed and approved by the IACUC at their meeting on October 14, 2019.

Additionally, the IACUC reviewed and approved the program review at the convened meeting on October 14, 2019. The OLAW Semiannual Program Review Checklist based on the 8<sup>th</sup> Edition of the ILAR Guide for the Care and Use of Laboratory Animals was used as a guideline. One item was discussed as a concern. The components of the occupational health and safety program for medical evaluation and preventative medicine for those working with vertebrate animals are in place however, the IACUC requested better monitoring and adherence to the program due to an increased number of gaps in documentation. Additionally, the IACUC recommended moving from a paper-based system to an electronic monitoring system to accommodate more efficient and effective compliance as well as future growth in the use of animals. A letter has been sent to EH&S Senior Director outlining the IACUC's concerns.

There have not been any departures from the regulations submitted, reviewed and/or approved over the last 6 months.

Deficiency Category	Location	Deficiency and Plan for Correction	Responsible Party	Correction Schedule and Interim Status	Date Completed
category				One working	Bute completed
				autoclave	
		One of two autoclaves do not		sufficient for	
А	Clean side of autoclave	work.	OLAC	workload	
А	Housing		PI		
А	Housing & Procedure Room		PI		
А	Housing		Pls		
А	Housing		PI		
		Do not vent isoflurane bottle			
		in the fume hood. Place lid on			
		empty bottles and disposed of			
Μ	Procedure Room	appropriately.	Pls	Notice sent to PIs.	October 25,2019
		Weight must be recorded on			
		gas waste canister prior to each use.	Pls	Notice sent to PIs.	October 25, 2019
А	Animal Food Storage		OLAC		
А	Hallway/Surgery Antiroom		OLAC / PIs		
		Discard expired povidone			
Μ	Surgery Room	iodine solution.	PIs	Notice sent to PI	October 25, 2019
А	Surgery Recovery		Pls		
М	Housing	Provide method of emergency	EH&S/OLAC		December 2019

Μ

11 – Housing

		eye wash			
А	ABSL2 Gowning/Anteroom		OLAC / PI		
				One working	
				autoclave	
		No animal housing at this		sufficient for	
А	Housing	time.		workload	
А	Quarantine		Multiple PIs		
А	Housing		PI		
А	Procedure Room		PI		
А	ABSL2 Anti Room Gowning		OLAC		
		Provide method of emergency			
Μ	ABSL-2 Room	eye wash.	EH&S/OLAC		December 2019
		One of two autoclaves do not			
		work, however one is working			
А	Autoclave	therefore this is acceptable.	OLAC		
<b>‡2</b> Vivariu	ım				
				Correction	
Deficiency	Location	Deficiency and Plan for		Schedule and	
Category		Correction	<b>Responsible Party</b>	Interim Status	Date Completed
		Drawer in this room was		PI indicated a key	
		locked and inspectors were		for the drawer	
		unable to access. Inquire		could not be	

ΡI

what is in the drawer and ask PI(s) to unlock the drawer

prior to future inspections,

unless containing controlled

found at this time.

If the key is not

found, a lock

smith will be

# SDSU Semi-annual Facility Inspections – Fall 2019 Inspections Conducted on October 1, 2019 IACUC Approved October 14, 2019 Inspectors present: Attending Veterinarian, Members #20 and #23

Accompanied by: Analyst, Coordinator, OLAC Manager, Facilities Director substances, which CS official called. Controlled will inspect. substances are not suspected to be in the drawer. Seal holes around pipes under OLAC to submit OLAC / Facilities sink. work order. December 2019 Room currently not being used. А Procedure Room No animals housed at this time. А Housing No animals housed at this А time. Housing Drawer in this room was locked and inspectors were PI had key, there unable to access. Inquire was nothing in what is in the drawer and ask the. Drawer will PI(s) to unlock the drawer be left unlocked prior to future inspections, or OLAC will be unless containing controlled provided the key substances, which CS official if used in the will inspect. Μ ΡI future. October 2019 Procedure Room А Housing Pls **Facilities Director** updated SOP for Ensure OLAC has an emergency exit procedure and cagewasher training in place for egress operation, from the cage washer in the maintenance and event someone should get training Cage Wash Clean Side OLAC/EH&S information. Μ locked in. October 2019

## SDSU Semi-annual Facility Inspections - Fall 2019

Inspections Conducted on October 1, 2019

IACUC Approved October 14, 2019

Inspectors present: Attending Veterinarian, Members #20 and #23 Accompanied by: Analyst, Coordinator, OLAC Manager, Facilities Director

		EH&S to clarify whether safety glasses are required for this		If safety glasses are needed, they	October 2019
<u>A</u>	Cage Wash Dirty Side	room.	OLAC	will be worn.	
#3 Vivariu	Im		1		Ι
Deficiency	Location	Deficiency and Plan for		Correction Schedule and	
Category		Correction	Responsible Party	Interim Status	Date Completed
А	Testing Room		PI		
А	Testing Room		PI		
А	Testing Room		PI		
А	Entry area		OLAC		
А	Housing		PI		
А	Testing Room		PI		
А	Testing Room		Pls		
А	Housing		PI		
		Isoflurane machine has been certified. Charcoal waste canister appears to be full. If		PI will replace waste canister and record weight	
М	Survival Surgery / Procedure room	the canister is full replace.	PI	before each use.	October 2019
A	Housing		PI		
А	Testing Room		PI		
		Chemicals cannot be stored in same refrigerator as animal		Pl's will identify another refrigerator for	
М	Wet Lab	food, remove chemicals.	PIs	chemicals	October 2019

1					
А	Procedure/Testing Room		PI		
		Freezer has been turned to			
	Hallway outside this room	allow more room for			
А	Thanway outside this room	personnel to pass.	OLAC/Facilities		Summer 2019
А	Surgery / Procedure Room		PI		
А	Bedding Closet		OLAC		
		There is a flammable materials			
		storage cabinet in the hallway			
		outside this room that does			
		not have self closing, self			
		latching devices in place.		Content of the	
		Since EH&S requested that		flammable	Flammable content
		another cabinet be replaced to		storage cabinet to	Facilities Director
		include the devices, clarify		be verified.	verified the cabinet
		with EH&S whether this		Replace latch or	has self-closing, self
		cabinet needs to meet the	EH&S/OLAC/College of	cabinet, as	latching hardware o
А	Testing Room	same requirement.	Sciences	needed.	10-23-2019
А	Testing Room		PI		
А	Testing Room		PI		
А	Testing Room		PI		
А	Testing Room		PI		
А	Testing Room		PI		
А	Housing		PI		
А	Housing		PI		
Α	Housing		PI		
		Self closing, self latching			
		devices are present on		New flammable	
		flammable materials storage		materials cabinet	Completion verified
А	Hallway outside this room	cabinet.	College of Sciences	purchased.	10/1/19

### SDSU Semi-annual Facility Inspections – Fall 2019 Inspections Conducted on October 1, 2019 IACUC Approved October 14, 2019 Inspectors present: Attending Veterinarian, Members #20 and #

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				If/when safety	
		Previous correspondence from		glasses are	
		EH&S stated safety glasses are		needed, they will	
А	Cagewash	needed in this room.	OLAC/EH&S	be worn.	October 2019
		Seal holes in ceiling tiles over		OLAC will submit	
Μ	Testing Room	animal testing machines.	PI/Facilities/OLAC	a work order	October 2019
А	Feed and Bedding Storage	9	OLAC		
Laborator	ies				
Deficiency		Deficiency and Plan for		Correction Schedule	
Category	Location	Correction	Responsible Party	and Interim Status	Date Completed
A	Lab #1	Acceptable	PI		
А	Lab #2	Acceptable	PI		
#1 Satellit	e Facility				
Deficiency		Deficiency and Plan for		Correction Schedule	
Category	Location	Correction	Responsible Party	and Interim Status	Date Completed
		No research animals being			
	Facility not inspected.	housed at the present time.			
#4 Vivariu	m				
Deficiency	Location	Deficiency and Plan for	Responsible Party	Correction Schedule	Date Completed
Category		Correction		and Interim Status	-
А	Lab	Acceptable	PI		
Controlled	l Substances				
Deficiency		Deficiency and Plan for		Correction Schedule	
Category	Location	Correction	Responsible Party	and Interim Status	Date Completed
All PIs met th	e requirements as specified in	the Guide (pp 115 and 122; see list below) for	or Drug Storage, Control and	d Expiration Dates. Inves	tigators authorized to use
		ces were stored in secured cabinet/safe. Onl			
		es used were properly and accurately logged.	-	-	
	, and the second s	ed substance for post-op analgesics correspo		s to Drs. Sussman and Gl	embotski).
A	#3 vivarium		PI		

А	#3 vivarium	PI	
A	#3 vivarium	PI	
A	#2 Lab	PI	
А	#1 Lab	PI	

#### San Diego State University – Fall 2019 Institutional Animal Care and Use Committee - Semiannual Program Review

On October 14, 2019 the IACUC performed and approved the Semi-annual Program Review using the OLAW Semi-annual Program Review Checklist (based on the 8<sup>th</sup> Edition of the Guide for the Care and Use of Laboratory Animals) as a guideline.

### I. Semiannual Program Review Checklist <sup>i</sup> Institutional Policies and Responsibilities

\* **A** = acceptable

- $\mathbf{M}$  = minor deficiency
- $\mathbf{S}$  = 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

1. Animal Care and Use Program 🗮	<b>A</b> *	Μ	S	С	NA
Responsibility for animal well-being is assumed by all members of the program					
( <i>Guide</i> , <u>p 1</u> ) [must]	Х				
<ul> <li>IO has authority to allocate needed resources (Guide, p 13)</li> </ul>	Х				
<ul> <li>Resources necessary to manage program of veterinary care are provided (<i>Guide</i>, <u>p 14</u>) [must]</li> </ul>	x				
<ul> <li>Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i>, <u>pp 11</u>, <u>15</u>)</li> </ul>	x				
<ul> <li>Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)</li> </ul>	х				
<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>	x				
<ul> <li>Inter-institutional collaborations are described in formal written agreements (<i>Guide</i>, <u>p 15</u>)</li> </ul>	x				
<ul> <li>Written agreements address responsibilities, animal ownership, and IACUC oversight (<i>Guide</i>, <u>p 15</u>)</li> </ul>	x				

2. Disaster Planning and Emergency Preparedness MEW	<b>A</b> *	Μ	S	С	NA
• Disaster plans for each facility to include satellite locations are in place (Guide, p					
<u>35, p 75</u> ) [must]	Х				
<ul> <li>Plans include provisions for euthanasia (Guide, p 35) [must]</li> </ul>	Х				

<ul> <li>Plans include triage plans to meet institutional and investigators' needs (Guide, p 35)</li> </ul>	х				
<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>	х				
• Plans describe preservation of critical or irreplaceable animals ( <i>Guide</i> , <u>p 35</u> )	Х				
• Plans include essential personnel and their training ( <i>Guide</i> , <u>p 35</u> )	Х				
<ul> <li>Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i>, <u>p 35</u>)</li> </ul>	x				
<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>	х				
3. IACUC NEW	<b>A</b> *	м	S	С	NA
<ul> <li>Meets as necessary to fulfill responsibilities (Guide, p 25) [must]</li> </ul>	Х				
<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>	х				
<ul> <li>Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)</li> </ul>	х				
<ul> <li>IACUC evaluates the effectiveness of training programs (<i>Guide</i>, <u>p 15</u>)</li> </ul>	x				
4. IACUC Protocol Review - Special Considerations	<b>A</b> *	Μ	S	С	NA
<ul> <li><b>4. IACUC Protocol Review - Special Considerations</b></li> <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>		M	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> <li>For pilot studies, a system to communicate with the IACUC is in place (<i>Guide</i>, p</li> </ul>	X	<b>M</b>	S	С	NA
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	personnel (Guide, <u>p 30</u> )					
	<ul> <li>Multiple surgical procedures on a single animal are justified and outcomes evaluated (<i>Guide</i>, <u>p 30</u>)</li> </ul>	Х				
	<ul> <li>Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, <u>p 30</u>)</li> </ul>	Х				
	<ul> <li>Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i>, p 30)</li> </ul>	Х				
	<ul> <li>Animals on food/fluid restriction are monitored to ensure nutritional needs are met (<i>Guide</i>, <u>p 31</u>)</li> </ul>	х				
	<ul> <li>Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p 31)</li> </ul>	х				
	<ul> <li>Daily written records are maintained for food/fluid restricted animals (<i>Guide</i>, <u>p</u> 31)</li> </ul>	х				
	<ul> <li>Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i>, <u>p 31</u>)</li> </ul>	х				
	Non-pharmaceutical grade chemicals are described, justified, and approved by	х				
	<ul> <li>Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (<i>Guide</i>, <u>p 32</u>)</li> </ul>	Х				
	• Disposition plans are considered for species removed from the wild ( <i>Guide</i> , <u>p 32</u> )	Х				
	<ul> <li>Toe-clipping only used when no alternative, performed aseptically and with pain relief (<i>Guide</i>, <u>p 75</u>)</li> </ul>	х				
5.	IACUC Membership and Functions	<b>A</b> *	м	S	С	NA
	<ul> <li>IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)</li> </ul>	х				
	<ul> <li>Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide</i>, <u>p 24</u>)<sup>ii</sup></li> </ul>	Х				
	<ul> <li>IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i>, <u>p 14</u>)</li> </ul>	Х				
	<ul> <li>IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>)</li> </ul>	Х				
	<ul> <li>Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)</li> </ul>	Х				
	• IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u> )	Х				
	<ul> <li>Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, <u>p 23</u>) [must]</li> </ul>	х				
	<ul> <li>Beviews and investigates concerns about animal care and use at institution<sup>iii</sup></li> </ul>					

 (Guide, p 23) [must]
 X

 • Reviews and investigates concerns about animal care and use at institution<sup>iii</sup>
 X

 (PHS Policy, IV.B.)
 X

	•	Procedures are in place for review, approval, and suspension of animal activities <sup>iv</sup> (PHS Policy, <u>IV.B.</u> )	х				
	•	Procedures are in place for review and approval of significant changes to	^				
	•	approved activities (PHS Policy, <u>IV.B.</u> )	х				
	•	Review procedures/processes are in place for special research procedures ( <i>Guide</i> , <u>p 27-32</u> )	x				
	•	Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS <sup>*</sup> ( <i>Guide</i> , $p$ 30) [must]					х
6.	IA	CUC Training NEW	<b>A</b> *	М	S	С	NA
-	•	All IACUC members should receive:					
		<ul> <li>Formal orientation to institution's program (Guide, p 17)</li> </ul>	Х				
		<ul> <li>Training on legislation, regulations, guidelines, and policies (Guide, p 17)</li> </ul>	Х				
		<ul> <li>Training on how to inspect facilities and labs where animal use or housing occurs (<i>Guide</i>, <u>p 17</u>)</li> </ul>	x				
		<ul> <li>Training on how to review protocols as well as evaluate the program (<i>Guide</i>, p 17)</li> </ul>	х				
		<ul> <li>Ongoing training/education (<i>Guide</i>, <u>p 17</u>)</li> </ul>	X				
				1			
7.	IA	CUC Records and Reporting Requirements <sup>vi</sup>	<b>A</b> *	Μ	S	С	NA
7.	. IA •	CUC Records and Reporting Requirements <sup>vi</sup> Semiannual report to the IO (PHS Policy, <u>IV.B.</u> )	<b>A</b> *	Μ	S	С	NA
7.	. IA •	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> </ul>	<b>A</b> *	M	S	С	NA
7.	. IA •	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all</li> </ul>	X	M	S	C	NA
7.	. IA •	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> </ul>	X X	M	S	C	NA
7.	. IA •	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> </ul>	X	M	S	<b>C</b>	NA
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> </ul>	X X	M	S	C	NA
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> </ul>	X X X	M	S	C	NA
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the</li> </ul>	X X X X	M	S	C	NA
7.	• •	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> <li>Distinguishes significant from minor deficiencies</li> </ul>	X X X X X X	M	S	C	NA
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> <li>Distinguishes significant from minor deficiencies</li> <li>Includes a plan and schedule for correction for each deficiency identified<sup>viii</sup></li> <li>Reports to OLAW (PHS Policy, <u>IV.F.</u>)X</li> <li>Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any</li> </ul>	X X X X X X X	M	S		
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> <li>Distinguishes significant from minor deficiencies</li> <li>Includes a plan and schedule for correction for each deficiency identified<sup>viii</sup></li> <li>Reports to OLAW (PHS Policy, <u>IV.F.</u>)X</li> <li>Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views</li> </ul>	X X X X X X	M	S		
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7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> <li>Distinguishes significant from minor deficiencies</li> <li>Includes a plan and schedule for correction for each deficiency identified<sup>viii</sup></li> <li>Reports to OLAW (PHS Policy, <u>IV.F.</u>)X</li> <li>Annual report to OLAW documents program changes, dates of the semiannual 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 noncompliance (<u>NOT-OD-05-034</u>)X</li> <li>Institute must promptly advise OLAW of any suspension of an animal activity</li> </ul>	X X X X X X X	M	S		
7.	•	<ul> <li>Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)</li> <li>Submitted to IO every 6 months</li> <li>Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)</li> <li>Includes minority IACUC views</li> <li>Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure<sup>vii</sup></li> <li>Distinguishes significant from minor deficiencies</li> <li>Includes a plan and schedule for correction for each deficiency identified<sup>viii</sup></li> <li>Reports to OLAW (PHS Policy, <u>IV.F.</u>)X</li> <li>Annual report to OLAW documents program changes, dates of the semiannual 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 noncompliance (<u>NOT-OD-05-034</u>)X</li> </ul>	X X X X X X X	M	S		

	<u>15)</u>	~				
•	Veterinarian(s) have experience in facility administration/management (Guide, $\underline{p}$	x				
•	[must]	х				
•	Veterinarian(s) have experience and training in species used ( <i>Guide</i> , $p 14$ )	<u> </u>	<u> </u>			
	<u>14</u> ) Regular communication occurs between veterinarian and IACUC ( <i>Guide</i> , <u>p 14</u> )	X X				
•	If part time /consulting veterinarian, visits meet programmatic needs ( <i>Guide</i> , <u>p</u>	^				
•	Veterinarian provides consultation when interventional control is not possible ( <i>Guide</i> , <u>p 5</u> ) [must]	х				
	level in protocol ( <i>Guide</i> , <u>p_5</u> ) [must]	Х	<u> </u>			
٠	Veterinarian provides consultation when pain and distress exceeds anticipated					
	animal care and use (Guide, p 14) [must]	Х				
•	Direct or delegated authority is given to the veterinarian to oversee all aspects of					
•	Veterinary access to all animals is provided ( <i>Guide</i> , <u>p 14</u> ) [must]	X				
٠	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care <sup>xi</sup>	х				
	eterinary Care (See also next section - Veterinary Care)	<b>A</b> *	Μ	S	С	N
	the study	x				
	<ul> <li>information*</li> <li>Records of IACUC reviews are maintained for 3 years after the completion of</li> </ul>	Х				-
	<ul> <li>Records of IACUC reviews of animal activities include all required</li> </ul>	V				
	3 years	х				
•	<ul> <li>IACUC meeting minutes and semiannual reports to the IO are maintained for</li> </ul>					
•	Federal funding agency Records (PHS Policy, <u>IV.E.</u> )	Х				
	<ul> <li>Promptly reports suspensions of activities by the IACUC to USDA and any</li> </ul>					
	correction of significant deficiencies	Х			 	
	<ul> <li>Reports are filed within 15 days for failures to adhere to timetable for</li> </ul>		-			
	<ul> <li>Reporting mechanism to USDA is in place for IACUC-approved exceptions to the regulations and standards</li> </ul>	x				

9. Personnel Quanneations and frammig	A	<b>IVI</b>	3	IA
<ul> <li>All personnel are adequately educated, trained, and/or qualified in basic</li> </ul>				
principles of laboratory animal science. Personnel included: [must]				
<ul> <li>Veterinary/other professional staff (Guide, p 15-16)</li> </ul>	Х			
<ul> <li>IACUC members (<i>Guide</i>, <u>p 17</u>)</li> </ul>	Х			

<ul> <li>Animal care personnel (<i>Guide</i>, <u>p 16</u>)</li> </ul>	Х	
<ul> <li>Research investigators, instructors, technicians, trainees, and students (<i>Guide</i>, <u>pp 16-17</u>)</li> </ul>	x	
<ul> <li>Continuing education for program and research staff provided to ensure high</li> </ul>		
quality care and reinforce training (Guide, pp 16-17)	Х	
<ul> <li>Training is available prior to starting animal activity (Guide, p 17)</li> </ul>	Х	
<ul> <li>Training is documented (<i>Guide</i>, <u>p 15</u>)</li> </ul>	Х	
<ul> <li>Training program content includes: (Guide, p 17)</li> </ul>		
<ul> <li>Methods for reporting concerns (<i>Guide</i>, <u>p 17</u>)</li> </ul>	Х	
<ul> <li>Humane practices of animal care (e.g., housing, husbandry, handling) <sup>xii</sup></li> </ul>	Х	
<ul> <li>Humane practices of animal use (e.g., research procedures, use of anesthesia, pre- and post-operative care, aseptic surgical techniques and euthanasia (<i>Guide</i>, <u>p 17</u>)<sup>xiii</sup></li> </ul>	X	
<ul> <li>Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, <u>IV.A.1.q.</u>)</li> </ul>	x	
<ul> <li>Research/testing methods that minimize animal pain or distress (PHS Policy, IV.A.1.q.)</li> </ul>	x	
<ul> <li>Use of hazardous agents, including access to OSHA chemical hazard notices where applicable (<i>Guide</i>, <u>p 20</u>)</li> </ul>	x	
• Animal care and use legislation ( <i>Guide</i> , <u>p 17</u> )	Х	
• IACUC function ( <i>Guide</i> , p 17)	Х	
• Ethics of animal use and Three R's ( <i>Guide</i> , <u>p 17</u> )	Х	

10.	Occupational Health and Safety of Personnel	$\mathbf{A}^*$	Μ	S	С	NA
•	Program is in place and is consistent with federal, state, and local regulations ( <i>Guide</i> , <u>p 17</u> ) [must]	х				
•	Program covers all personnel who work in laboratory animal facilities (Guide, p <u>18</u> )	х				
•	Changing, washing, and showering facilities are available as appropriate ( <i>Guide</i> , $p 19$ )	х				
•	Hazardous facilities are separated from other areas and identified as limited access ( <i>Guide</i> , <u>p 19</u> )	х				
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) ( <i>Guide</i> , <u>p 20</u> )	х				
•	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) (Guide, p 20)	x				
•	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place ( <i>Guide</i> , <u>p 21</u> )	x				

12.	Investigating & Reporting Animal Welfare Concerns 🗮	$A^*$	М	S	С	NA
•	Preventive measures in place include pre-employment screening, and physical and IT security ( <i>Guide</i> , $p 23$ )	x				
11.	Personnel Security	<b>A</b> *	м	s	С	NA
•	Occupational safety and health of field studies is reviewed by OSH committee or office ( <i>Guide</i> , $p 32$ )	x				
	<ul> <li>Injuries associated with macaques are carefully evaluated and treatment implemented (<i>Guide</i>, <u>p 23</u>)</li> </ul>	х				
	<ul> <li>PPE is provided including gloves, arm protection, face masks, face shields, or goggles (<i>Guide</i>, <u>p 21</u>)</li> </ul>	х				
	associated with macaques (Guide, p 23)	х				
	<ul> <li>Tuberculosis screening provided for all exposed personnel (<i>Guide</i>, <u>p 23</u>)</li> <li>Training and implementation of procedures for bites, scratches, or injuries</li> </ul>	Х				
•	Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:			1		
•	Respiratory protection is available when performing airborne particulate work ( <i>Guide</i> , <u>p 22</u> )	х				
•	Waste anesthetic gases are scavenged ( <i>Guide</i> , <u>p 21</u> ) Hearing protection is provided in high noise areas ( <i>Guide</i> , <u>p 22</u> )	X X				
	<ul> <li>If serum samples are collected, the purpose is consistent with federal and state laws (<i>Guide</i>, <u>p 22</u>) [must]</li> </ul>	X X				
	<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>	x				
	<ul> <li>Promotes early diagnosis of allergies including preexisting conditions (<i>Guide</i>, <u>p 22</u>)</li> </ul>	х				
	<ul> <li>Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (<i>Guide</i>, p 23)</li> </ul>	X				
	<ul> <li>Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (<i>Guide</i>, p 23)</li> </ul>	X				
	<ul> <li>Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (<i>Guide</i>, <u>p 22</u>)</li> </ul>	Х				
•	<ul> <li>Program for medical evaluation and preventive medicine for personnel includes:</li> <li>Pre-employment evaluation including health history (<i>Guide</i>, <u>p 22</u>)</li> </ul>	Х				
•	Personal Protective Equipment for the work area is appropriate and available ( <i>Guide</i> , <u>p 21</u> )	A				

Methods for investigating and reporting animal welfare concerns are established X

( <i>Guide</i> , <u>p 23</u> ) [must]		
• Reported concerns and corrective actions are documented ( <i>Guide</i> , <u>p 24</u> )	Х	
Mechanisms for reporting concerns are posted in facility and at applicable		
website with instructions (Guide, p 24)	Х	
<ul> <li>Includes multiple contacts (<i>Guide</i>, <u>p 24</u>)</li> </ul>	Х	
<ul> <li>Includes anonymity, whistle blower policy, nondiscrimination and reprisal</li> </ul>		
protection (Guide, p 24)	X	

### **Veterinary Care**

1. Cli	inical Care and Management 🗮	$\mathbf{A}^*$	Μ	S	С	NA
٠	Veterinary program offers high quality of care and ethical standards (Guide, p 105) [must]	х				
•	Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia ( <i>Guide</i> , <u>p 106</u> )	х				
•	Veterinarian provides oversight to surgery and perioperative care ( <i>Guide</i> , $p = 106$ )	X				
•	Veterinary care program is appropriate for program requirements ( <i>Guide</i> , <u>pp 113-114</u> )					
•	Veterinarian(s) is familiar with species and use of animals and has access to medical	~				
•	and experimental treatment records ( <i>Guide</i> , <u>p 114</u> )	х				
•	Procedures to triage and prioritize incident reports are in place ( <i>Guide</i> , $p 114$ )	X				
•	Procedures are in place to address:					1
	• Problems with experiments to determine course of treatment in consultation with					
	investigator(Guide, p 114)	Х				
	<ul> <li>Recurrent or significant health problems with the IACUC and documentation of</li> </ul>					
	treatments and outcomes (Guide, p 114)	Х				
		Х				
•	Procedures established for timely reporting of animal injury, illness, or disease ( <i>Guide</i> , $p \ 114$ ) [must]	х				
•	Procedures established for veterinary assessment, treatment, or euthanasia ( <i>Guide</i> , $\underline{p}$ <u>114</u> ) [must]	x				
•	Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p 114) [must]	х				
2. An	imal Procurement and Transportation/Preventive Medicine	A*	М	S	С	NÆ
•	Procedures for lawful animal procurement are in place (Guide, p 106) [must]	Х				
•	Sufficient facilities and expertise are confirmed prior to procurement ( <i>Guide</i> , <u>p 106</u> )	Х				
•	Procurement is linked to IACUC review and approval (Guide, p 106)	Х				
•	Random source dogs and cats are inspected for identification (Guide, p 106)					Х
•	Population status of wildlife species is considered prior to procurement ( <i>Guide</i> , <u>p 106</u> )	Х				
٠	Appropriate records are maintained on animal acquisition (Guide, p 106)	Х				
٠	Animal vendors are evaluated to meet program needs and quality (Guide, p 106)	Х				
٠	Breeding colonies are based on need and managed to minimize numbers ( <i>Guide</i> , $\underline{p}$ <u>107</u> )	x				

Procedures for compliance with animal transportation regulations, including					
international requirements, are in place (Guide, p 107) [must]	Х				
• Transportation is planned to ensure safety, security and minimize risk ( <i>Guide</i> , <u>p 107</u> )	Х				
<ul> <li>Movement of animals is planned to minimize transit time and deliveries are planned to</li> </ul>					
ensure receiving personnel are available (Guide, pp 107-108)	Х				
<ul> <li>Appropriate loading and unloading facilities are available (Guide, p 109)</li> </ul>	Х				
<ul> <li>Environment at receiving site is appropriate (Guide, <u>p 109</u>)</li> </ul>	Х				
<ul> <li>Policies in place on separation by species, source, and health status (Guide, pp 109,</li> </ul>					
<u>111-112)</u>	Х				
<ul> <li>Procedures in place for quarantine to include zoonoses prevention (Guide, p 110)</li> </ul>	Х				
Quarantined animals from different shipments are handled separately or physically					
separated (Guide, p 110)	Х				
Procedures in place for stabilization/acclimation ( <i>Guide</i> , <u>pp 110-111</u> )	Х				
Policies in place for isolation of sick animals ( <i>Guide</i> , <u>p 112</u> )	Х				
Program is in place for surveillance, diagnosis, treatment and control of disease to					
include daily observation ( <i>Guide</i> , $p 112$ )	Х				
Diagnostic resources are available for preventive health program ( <i>Guide</i> , <u>p 112</u> )	Х				
3. Surgery	<b>A</b> *	м	S	C	NA
<ul> <li>Surgical outcomes are assessed and corrective changes instituted (<i>Guide</i>, <u>p 115</u>)</li> </ul>	X				11/1
<ul> <li>Researchers have appropriate training to ensure good technique (<i>Guide</i>, <u>p 115</u>)</li> </ul>	-				
[must]	х				
<ul> <li>Pre-surgical plans are developed and include veterinary input (e.g., location, supplies,</li> </ul>	-				
anesthetic and analgesic use, peri-operative care, recordkeeping) ( <i>Guide</i> , <u>p 116</u> )	х				
<ul> <li>Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified</li> </ul>					
and IACUC approved ( <i>Guide</i> , <u>p 116</u> )	X				
<ul> <li>Surgical procedures including laparoscopic procedures are categorized as major or</li> </ul>					
minor ( <i>Guide</i> , <u>pp 117-118</u> )	х				
<ul> <li>For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area</li> </ul>					
are clean ( <i>Guide</i> , <u>p 118</u> )	х				
<ul> <li>Aseptic technique is followed for survival surgical procedures (<i>Guide</i>, <u>pp 118-119</u>)</li> </ul>	X				
<ul> <li>Effective procedures for sterilizing instruments and monitoring expiration dates on</li> </ul>	~				
sterile packs are in place ( <i>Guide</i> , <u>p 119</u> )	х				
<ul> <li>Procedures for monitoring surgical anesthesia and analgesia are in place (<i>Guide</i>, <u>p</u>)</li> </ul>	^				
• Frocedures for monitoring surgical anestnesia and analyesia are in place (Guide, $\underline{p}$	х				
110)		1			
119)	^				
• For aquatic species, skin surfaces are kept moist during surgical procedures (Guide, p					
<ul> <li>For aquatic species, skin surfaces are kept moist during surgical procedures (<i>Guide</i>, <u>p</u> <u>119</u>)</li> </ul>	Х				
• For aquatic species, skin surfaces are kept moist during surgical procedures (Guide, p	Х				

1.	Pa	in, Distress, Anesthesia and Analgesia	<b>A</b> *	М	S	С	NA
	•	Guidelines for assessment and categorization of pain, distress and animal wellbeing					
		are provided during training (Guide, p 121)	Х				
	•	Selection of analgesics and anesthetics is based on professional veterinary judgment					
		(Guide, <u>p 121</u> )	Х				
	٠	Painful procedures are monitored to ensure appropriate analgesic management					
		(Guide, <u>p 122</u> )	Х				
	•	Nonpharmacologic control of pain is considered as an element of postprocedural care					
		(Guide, <u>p 122</u> )	Х				
	•	Procedures are in place to assure antinociception before surgery begins (Guide, p 122)					
		[must]	Х				
	٠	Guidelines for selection and use of analgesics and anesthetics are in place and					
		regularly reviewed and updated (Guide, p 122)	Х				_
	•	Special precautions for the use of paralytics are in place to ensure anesthesia <sup>xiv</sup>					
		(Guide, <u>p 123</u> )					Х
-	Eu	Ithanasia	<b>A</b> *	Μ	S	С	N
	•	Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the					
		IACUC ( <i>Guide</i> , <u>p 123</u> )	х				
	•	IACUC ( <i>Guide</i> , <u>p 123</u> ) Standardized methods are developed and approved by the veterinarian and IACUC	х				
	•	IACUC ( <i>Guide</i> , <u>p 123</u> ) 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> )	x x				
	•	IACUC (Guide, p 123)Standardized methods are developed and approved by the veterinarian and IACUCthat avoid distress and consider animal age and species (Guide, pp 123-124)Training is provided on appropriate methods for each species and considers					
		IACUC (Guide, p 123)Standardized methods are developed and approved by the veterinarian and IACUCthat avoid distress and consider animal age and species (Guide, pp 123-124)Training is provided on appropriate methods for each species and considerspsychological stress to personnel (Guide, p 124)					
		IACUC (Guide, p 123)Standardized methods are developed and approved by the veterinarian and IACUCthat avoid distress and consider animal age and species (Guide, pp 123-124)Training is provided on appropriate methods for each species and considerspsychological stress to personnel (Guide, p 124)Procedures and training are in place to ensure death is confirmed (Guide, p 124)	x				
	•	IACUC (Guide, p 123)Standardized methods are developed and approved by the veterinarian and IACUCthat avoid distress and consider animal age and species (Guide, pp 123-124)Training is provided on appropriate methods for each species and considerspsychological stress to personnel (Guide, p 124)	x				
	•	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) [must]	x x	M	S	C	NA
	•	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) [must]	x x x	M	S	C	N
	• • Dr	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) <b>must</b> <b>rug Storage and Control</b>	x x x	M	S	C	N
5.	• • Dr	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) [must] <b>rug Storage and Control</b> NEW Program complies with federal regulations for human and veterinary drugs( <i>Guide</i> , p 115) [must]	x x x x <b>A</b> * x	M	S	C	N
<b>.</b>	• • Dr	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) <b>must</b> <b>rug Storage and Control</b>	x x x x <b>A</b> * x	M	S	C	N/
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	• • Dr •	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) [must] <b>ug Storage and Control</b> NEW Program complies with federal regulations for human and veterinary drugs( <i>Guide</i> , p 115) [must] Drug records and storage procedures are reviewed during facility inspections ( <i>Guide</i> , p 115) Procedures are in place to ensure analgesics and anesthetics are used within	x x x <b>A</b> * x 2 x	M	S	C	N/
	• • Dr •	IACUC ( <i>Guide</i> , p 123) Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed ( <i>Guide</i> , p 124) [must] <b>rug Storage and Control</b> NEW Program complies with federal regulations for human and veterinary drugs( <i>Guide</i> , p 115) [must] Drug records and storage procedures are reviewed during facility inspections ( <i>Guide</i> , p 115)	x x x x <b>A</b> *	M	S	C	N

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)

### Fall 2019

## Notes and Items Accomplished since the last Program Review:

• Note #1: Section 10 Occupational Health and Safety of Personnel:

Although the program for medical evaluation and preventive medicine for personnel includes the items indicated in this checklist the program is not being monitored or enforced by EH&S. A letter will be sent from the IACUC to the Director of EH&S with suggestions.

- New faculty have been hired that use zebrafish in their research. The SDSU Program of Veterinary Care was updated, reviewed and approved by the IACUC on April 8, 2019 to include zebrafish. The Emergency Response Plan has also been updated to include the additional housing area for zebrafish.
- The SDSU Veterinary Verification and Consultation (VVC) policy was revised to add changes to procedures as acceptable criteria eligible for VVC.

<sup>&</sup>lt;sup>i</sup> The PHS Policy requires that Assured institutions comply with the regulations (9 CFR, Subchapter A) issued by the U.S. Department of Agriculture (USDA) under the Animal Welfare Act, as applicable. The endnotes below are specific USDA regulatory requirements that differ from or are in addition to the PHS Policy. This list is not intended to be all inclusive. For additional information please refer to 9 CFR Subchapter A - Animal Welfare.

<sup>&</sup>lt;sup>ii</sup> Part 2 Subpart C - Research Facilities

<sup>- 2.31(</sup>b)(2) - "The Committee shall be composed of a Chairman and at least two additional members;... at least one shall not be affiliated in any way with the facility...such person will provide representation for general community interests in the proper care and treatment of animals." [PHS policy requires 5 members]

<sup>iii</sup> 2.32(c)(4) - "...No facility employee, Committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act." [USDA requirement additional to PHS Policy]

<sup>iv</sup> 2.31(d)(5) - "...shall conduct continuing reviews of activities...not less than annually." [PHS Policy requires a complete new review every 3 years utilizing all the criteria for initial review]

 $^{v}$  2.31(d)(1)(x) - "...no animal will be used in more than one major operative procedure from which it is allowed to recover unless...(it is) justified for scientific reasons...(or is) required as routine veterinary procedure...or other special circumstances as determined by the Administrator on an individual basis." [this last point is an additional USDA justification for multiple survival surgeries]

<sup>vi</sup> 2.36 - "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]

<sup>vii</sup> 2.36(b)(3) - "...exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the IACUC. A summary of all such exceptions must be attached to the facility's annual report." [Refers to USDA annual report]

<sup>viii</sup> 2.31(c)(3) - "...Any failure to adhere to the plan and schedule that results in a significant deficiency remaining uncorrected shall be reported in writing within 15 business days by the IACUC, through the institutional official, to APHIS and any Federal agency funding that activity." [PHS Policy requires prompt reporting to OPRR of serious or continuing noncompliance with the PHS Policy or serious deviations from the provisions of the *Guide*]

<sup>ix</sup> 2.36 - "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]

<sup>x</sup> In addition to PHS requirements for IACUC review/application for funding, USDA regulations require:

2.31(d)(1)(ii) - "The principal investigator (PI) consider alternatives to procedures that cause more than momentary or slight pain or distress to the animals, and has provided a written narrative description of the methods and sources...used to determine that alternatives were not available."

2.31(d)(1)(iii) - "The PI has provided written assurance that the activities do not unnecessarily duplicate previous experiments."

2.31(d)(1)(iv) - "Procedures that may cause more than momentary or slight pain or distress to the animals will:

- involve in their planning, consultation with the attending veterinarian or his or her designee; [PHS Policy does not specify veterinary consultation]

- not include paralytics without the use of anesthesia;"

2.31(d)(1)(x) - "No animal will be used in more than one major operative procedure from which it is allowed to recover, unless justified for scientific reasons by the principal investigator, in writing..."

 $x^{i} 2.33(a)(1)$  - "In the case of a part-time attending veterinarian or consultant arrangements, the formal arrangements shall include a written program of veterinary care and regularly scheduled visits to the research facility." [USDA requirement additional]

x<sup>ii</sup> 2.32(c) - "Humane methods of animal maintenance and experimentation, including the basic needs of each species, proper handling and care for the various species of animals used by the facility, proper pre-procedural and post-procedural care of animals, and aseptic surgical methods and procedures."

<sup>xiii</sup> 2.32(c) - additional specifications include:

- "proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility"

- "methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility..."

- "utilization of services (e.g., National Agricultural Library, National Library of Medicine) to provide information on appropriate animal care and use, alternatives to the use of live animals in research , that could prevent unintended and unnecessary duplication of research involving animals, and regarding the intent and requirements of the Act." [USDA training specifications are more detailed than PHS Policy].

xiv 2.31(d)(iv)(C) - "Procedures that may cause more than momentary or slight pain or distress to the animals will...not include the use of paralytics without anesthesia."