

To: Dr. Jane Schuh
VP Research and Creative Activity
Institutional Official for Animal Care and Use

From: North Dakota State University Institutional Animal Care and Use Committee

Subject: Semiannual Report of the Program Review and Facility Inspection

Date: January 21, 2021

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

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

Departures from the PHS Policy, the *Guide*, and the AWA.

Select A or B:

- ☒ A. There were no departures during this reporting period.
☐ B. The following departures have been reviewed and approved by the IACUC:
-

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

Animal Care and Use Program Review Date(s): **December 17, 2020**

Select A or B:

- ☒ A. There were no deficiencies in the program during this reporting period.
☐ B. The following deficiencies have been identified:
-

III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s): July 15, August 4, 10, 20, September 9, 18, 22, 28, 29, October 19, 29, November 5, 9, 16, 20, December 8, 14, 2020.

Select A or B:

- ☒ A. There were no deficiencies in the animal facility during this reporting period.
☐ B. The following deficiencies have been identified:
-

IV. Minority Views

Select A or B:

- ☒ A. No minority views were submitted or expressed.
☐ B. The following minority views were expressed
-

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

Currently all NDSU animal facilities are a Category 2 Status-Evaluated by the Institution. All of the institution's programs and facilities (including satellite facilities) for activities involving animals have been evaluated by the IACUC and will be reevaluated by the IACUC at least once every six months, in accordance with IV.B.1 and 2 of the PHS Policy, and the reports prepared in accordance with IV.B.2 of the PHS Policy.

Signature page for Semiannual Report of Program Review and Facility Inspections dated January 21, 2021

Names of IACUC Members	Signatures	Date
Neil Dyer	<i>Neil Dyer</i>	1/21/2021
John Wilkinson		
Jiha Kim		
Glenn Dorsam		
Michael Undi		
Brett Webb		
Kimberly Wold		
Jacob Shreffler		
Jayma Moore		
Brian Hansen		
Wayde Rodehorst		
Michael Kjelland		
Matthew Smith		
Trent Gilbery		

RESEARCH INTEGRITY AND COMPLIANCE

NDSU Dept 4000 | PO Box 6050 | Fargo ND 58108-6050 | ndsuhresearch@ndsuh.edu

Shipping Address: Research 1, 1735 NDSU Research Park Drive, Fargo, ND 58102

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Obtained by Rise for Animals.
Updated to Animal Research Laboratory Overview (ARLO) on 02/19/2021

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Signature page for Semiannual Report of Program Review and Facility Inspections dated January 21, 2021

Names of IACUC Members	Signatures	Date
Neil Dyer		
John Wilkinson	<i>John C. Wilkinson</i>	01-24-21
Jiha Kim		
Glenn Dorsam		
Michael Undi		
Brett Webb		
Kimberly Wold		
Jacob Shreffler		
Jayma Moore		
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Neil Dyer		
John Wilkinson		
Jiha Kim		
Glenn Dorsam	<i>Glenn Dorsam</i>	1/28/21
Michael Undi		
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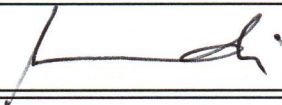
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Kimberly Wold	Kimberly S. Wold	21Jan21
Jacob Shreffler		
Jayma Moore		
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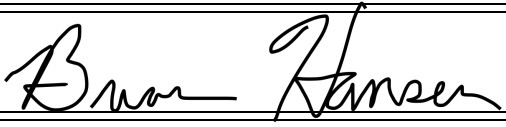
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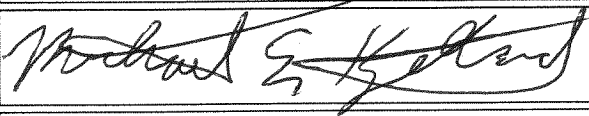
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Matthew Smith	<i>Matthew Smith</i>	1/22/21
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Brian Hansen		
Wayde Rodehorst		
Michael Kjelland		
Matthew Smith		
Trent Gilbery		1-27-21

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Shepperd Arena

Animals Present

None

Date

08/10/2020

Personnel Present

E. Berg, L. Christenson, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

--

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Notes

--

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

--

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

--

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

video equipment estimates being obtained for north side animal housing area.

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Not Applicable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Not Applicable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

Signatures not obtained due to pandemic.

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas with Aseptic Surgery Area

Animal Facility

Animal Nutrition and Physiology Center

Animals Present

Sheep, Cattle, Chickens

Date

08/04/2020

Personnel Present

T. Skunberg, J. Gilbertson, J. Kirsch, N. Dyer, T. Gilbery, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

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Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

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Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

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Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

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Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

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Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

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Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

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Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

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Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

--

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Notes

--

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

--

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

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Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

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Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

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Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

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Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

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Additional enrichment for single housed animals is provided ([Guide, page 64](#))

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Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

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Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

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Notes

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Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Sunshades placed in sheep pastures.

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

--

Aseptic Surgery Section

Section 1-General Considerations

Location minimizes traffic/contamination
([Guide, page 144](#))

Acceptable

Correction Deadline

--

Functional components (surgical support,
animal preparation, surgeon scrub,
operating roo, postoperative recovery) are
designed and separated (physically or
otherwise) ([Guide, page 144](#))

Acceptable

Correction Deadline

--

Appropriate drug storage, control,
expiration date monitoring ([Guide, page
115, 122](#))

Acceptable

Correction Deadline

--

Safe sharps disposal system ([Guide, page,
74](#))

Acceptable

Correction Deadline

--

Adequate records of anesthesia and
perioperative care ([Guide, page 122](#))

Acceptable

Correction Deadline

--

Aseptic procedures in use for all survival
surgery ([Guide, page 118-119](#))

Acceptable

Correction Deadline

--

Notes

IACUC Office will print and deliver more dot system keys.

Section 2-Operating Room

Effective contamination control procedures ([Guide, page 144](#))

Acceptable

Correction Deadline

--

Effective cleaning procedures/dedicated tools ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Interior surfaces smooth and impervious to moisture ([Guide, page 145](#))

Acceptable

Correction Deadline

--

HVAC systems meets *Guide* requirements ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Lighting safe and appropriate ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Outlets safe and appropriate ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Scavenging of anesthetic gases implemented ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Comments

SOP developed for surgical areas that are also used by classes.

Section 3-Surgical Support

Facility for washing, sterilizing, storing instruments and supplies ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Autoclave monitoring procedures are implemented ([Guide, page 119, 145](#))

Acceptable

Correction Deadline

--

Storage of autoclaved materials maintains sterility ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Cold sterilization procedures are appropriate ([Guide, page 119](#))

Acceptable

Correction Deadline

--

Comments

--

Section 4-Animal Preparation

Contains large sink to facilitate cleaning of animal and operative site ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 5-Surgeon Scrub

Outside operating room, non-hand-operated sink ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 6-Postoperative Recovery

Allows adequate observation, easily cleaned, supports physiological functions, minimizes risk of injury ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 7-Dressing Area

Place for personnel to change ([Guide](#),
[page 145](#))

Acceptable

Correction Deadline

Comments

*Signatures not obtained due to pandemic

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Central Grasslands Research Extension Center

Animals Present

Cattle

Date

09/28/2020

Personnel Present

T. Long, N. Dyer, J. Hayden (joined remotely), K. Sedivec

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

--

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Notes

--

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

--

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

--

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

1. Vet shack freshly painted inside – all drugs in date
2. New cement slab poured for bunk feeding cattle on trials – allows for permanent, cleanable, flat surface where cows will be feeding
3. Three other cement bunks repaired with plate steel welded and formed to fit the contour of the bunk
4. All working facilities in good condition and well cleaned
5. Mineral shed swept and minerals stacked on pallets
6. All vaccine in date in the lab
7. All cattle on pasture and in very good condition

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Carrington Research Extension Center

Animals Present

Cattle

Date

07/14/2020

Personnel Present

B. Neville, N. Dyer, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

--

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Notes

--

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

--

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

--

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Not Applicable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

4 pens have been concreted; another 4 will be concreted in the coming months

Dealt with health problems this spring; coccidiosis mostly

Recommend sending samples to diagnostic lab when running into treatment failure issues.

List cause of death, if known, on treatment logs. Provide enough detail to track health and treatment trends.

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Dairy Unit

Animals Present

Cattle

Date

07/07/2020

Personnel Present

T. Molden, T. Gilbery, H. Pecoraro, N. Dyer, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Free stall barn has been painted and new LED lights have been installed.

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

Notes

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Cement being poured in calf hutch area this week. Bunkline complete in outdoor paddock.
--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Reminders-use chain/wire to secure gates; wipe out fridge routinely.

Comments

Multiple improvements made throughout facility; fencing has been redone, outdoor bunkline is finished, fresh paint and lighting in freestall barn, fresh paint in sick bay area

Improvements that will be done soon include: poured cement in calf hutch area, new waterer's in freestall barn, silos will be torn down and removed.

*Signatures were not obtained due to COVID-19.

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Equine Unit

Animals Present

Horses

Date

08/20/2020

Personnel Present

S. Eck, G. Stokka, N. Dyer

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

--

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

--

Notes

--

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

--

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

--

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

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Notes

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Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Not Applicable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Not Applicable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

*Signatures not collected due to pandemic.

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Other

Gustad

Animals Present

Mice

Date

09/09/2020

Personnel Present

T. Gustad, N. Dyer, and J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Not Applicable

Correction Deadline

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

Agricultural animals are housed socially ([Guide, page 60](#))

Not Applicable

Correction Deadline

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Not Applicable

Correction Deadline

Notes

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

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Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Not Applicable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

*Signatures not obtained due to the pandemic.

Signatures

Semiannual Program Review Checklist

Institutional Policies and Responsibilities

Date

12/17/2020

Personnel Present

123244, 123242, 123229, 123125 123242, 123180 (for 123250),
123247, 123249, 123203, 123201, 123251 (for 123230 until
10:00 AM), 123212, 123230, 123197, 123211, 123143, 123140

Section 1-Animal Care and Use Program

Responsibility for animal well being is assumed by all members of the program (Guide, Page 1) [must]

Acceptable

Correction Deadline

IO has authority to allocate needed resources (Guide, Page 13)

Acceptable

Correction Deadline

Resources necessary to manage program of veterinary care are provided (Guide, Page 14) [must]

Acceptable

Correction Deadline

Sufficient resources are available to manage the program, including training of personnel in accordance with regulations and the Guide, (Guide, Page 11,15)

Acceptable

Correction Deadline

Program needs are regularly communicated to IO by AV and/or IACUC (Guide, Page 13)

Acceptable

Correction Deadline

Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site ([Guide, Page 14](#)) [must]

Acceptable

Correction Deadline

--

Inter-institutional collaborations are described in formal written agreement ([Guide, Page 15](#))

Acceptable

Correction Deadline

--

Written agreements address responsibilities, animal ownership, and IACUC oversight ([Guide, Page 15](#))

Acceptable

Correction Deadline

--

Notes

--

Section 2-Disaster Planning and Emergency Preparedness

Disaster plans for each facility to include satellite locations are in place ([Guide, Page 35,75](#)) [must]

Acceptable

Correction Deadline

--

Plans include provisions for euthanasia ([Guide, Page 35](#)) [must]

Acceptable

Correction Deadline

--

Plans include triage plans to meet institutional and investigators' needs ([Guide, Page 35](#))

Acceptable

Correction Deadline

--

Plans define actions to prevent animal injury or death to HVAC or other failures (Guide, Page 35)

Acceptable

Correction Deadline

--

Plans describe prevention of critical or irreplaceable animals (Guide, Page 35)

Acceptable

Correction Deadline

--

Plans include essential personnel and their training (Guide, Page 35)

Acceptable

Correction Deadline

--

Animal facility plans are approved by the institution and incorporated into overall response plan (Guide, Page 35)

Acceptable

Correction Deadline

--

Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (Guide, Page 35)

Acceptable

Correction Deadline

--

Notes

--

Section 3-IACUC

Meets as necessary to fulfill responsibilities (Guide, Page 25) [must]

Acceptable

Correction Deadline

--

IACUC Member named in protocols or with conflicts recuse themselves from protocol decisions (Guide, Page 35)

Acceptable

Correction Deadline

--

Continuing IACUC oversight after initial protocol approval is in place ([Guide, Page 33](#))

Acceptable

Correction Deadline

--

IACUC evaluates the effectiveness of training programs ([Guide, Page 15](#))

Acceptable

Correction Deadline

--

Notes

--

Section 4-IACUC Protocol Review- Special Considerations

Humane endpoints are established for studies that involve tumor models, infectious disease, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologist effects, organ or system failure, and models of cardiovascular shock ([Guide, Page 27](#))

Acceptable

Correction Deadline

--

For pilot studies, a system to communicate with the IACUC is in place ([Guide, Page 28](#))

Acceptable

Correction Deadline

--

For genetically modified animals, enhanced monitoring and reporting is in place ([Guide, Page 28](#))

Acceptable

Correction Deadline

--

Restraint devices are justified in the animal use protocols ([Guide, Page 29](#))

Acceptable

Correction Deadline

--

Alternatives to physical restraints are considered (Guide, Page 29)

Acceptable

Correction Deadline

--

Period of restraint is the minimum to meet scientific observations (Guide, Page 29)

Acceptable

Correction Deadline

--

Training of animals to adapt to restraint is provided (Guide, Page 29)

Acceptable

Correction Deadline

--

Animals that fail to adapt are removed from study (Guide, Page 29)

Acceptable

Correction Deadline

--

Appropriate observation intervals of restrained animals are provided (Guide, Page 29)

Acceptable

Correction Deadline

--

Veterinary care is provided if lesions or illness results from restraint (Guide, Page 30) [must]

Acceptable

Correction Deadline

--

Explanations of purpose and duration of restraint are provided to study personnel (Guide, Page 30)

Acceptable

Correction Deadline

--

Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, Page 30)

Acceptable

Correction Deadline

--

Major versus minor surgical procedures are evaluated on a case-by case basis (Guide, Page 30)

Acceptable

Correction Deadline

Multiple survival procedures justifications in non-regulated species conform to regulated species standards ([Guide, Page 30](#))

Acceptable

Correction Deadline

Animals on food/fluid restriction are monitored to ensure nutritional needs met ([Guide, Page 31](#))

Acceptable

Correction Deadline

Body weight for food/fluid restricted animals are recorded at least weekly ([Guide, Page 31](#))

Acceptable

Correction Deadline

Daily written records are maintained for food/fluid restricted animals ([Guide, Page 31](#))

Acceptable

Correction Deadline

Pharmaceutical grade chemicals are used, when available, for animal-related procedures ([Guide, Page 31](#))

Acceptable

Correction Deadline

Non-Pharmaceutical grade chemicals are described, justified, and approved by IACUC ([Guide, Page 31](#))

Acceptable

Correction Deadline

Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area ([Guide, Page 32](#))

Acceptable

Correction Deadline

Disposition plans are considered for species removed from the wild ([Guide, Page 32](#))

Acceptable

Correction Deadline

Toe-clipping only used when no alternative, performed aseptically and with pain relief ([Guide, Page 75](#))

Acceptable

Correction Deadline

Notes

Section 5-IACUC Membership and Functions

IACUC is comprised of at least 5 members, appointed by CEO ([PHS Policy, IV.A.3.](#))

Acceptable

Correction Deadline

Members include veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user. ([Guide, Page 24](#))

Acceptable

Correction Deadline

IACUC authority and resources for oversight and evaluation of institution's program are provided ([Guide, Page 14](#))

Acceptable

Correction Deadline

IACUC conducts semiannual evaluations of institutional animal care and use program are provided ([PHS Policy, IV.B.](#))

Acceptable

Correction Deadline

Conducts semiannual inspections of institutional animal facilities ([PHS Policy, IV.B.](#))

Acceptable

Correction Deadline

IACUC organizationally reports to the Institutional Official ([PHS Policy, IV.A.1.b](#))

Acceptable

Correction Deadline

Methods for reporting and investigating animal welfare concerns are in place (Guide, Page 23) [must]

Acceptable

Correction Deadline

Reviews and investigates concerns about animal care and use at institution (PHS Policy, IV..B.)

Acceptable

Correction Deadline

Procedures are in place for review, approval and suspension of animal activities (PHS Policy, IV.B.)

Acceptable

Correction Deadline

Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)

Acceptable

Correction Deadline

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, Page 30) [must]

Acceptable

Correction Deadline

Requests for exemptions from major survival surgical procedures restrictions are made to USDA/APHIS (Guide, Page 30)

Acceptable

Correction Deadline

Notes

Section 6- IACUC Training

All IACUC member should receive:

Formal orientation to institution's program
(Guide, Page 17)

Acceptable

Correction Deadline

--

Training legislation, regulations,
guidelines, and policies (Guide, Page 17)

Acceptable

Correction Deadline

--

Training on how to inspect facilities and
labs where animal use or housing occurs
(Guide, Page 17)

Acceptable

Correction Deadline

--

Training on how to review protocols as
well as evaluate the program (Guide, Page
17)

Acceptable

Correction Deadline

--

Ongoing training/education (Guide, Page
17)

Acceptable

Correction Deadline

--

Notes

--

Section 7- IACUC Records and Reporting Requirements

Semiannual report the the IO (PHS Policy, IV.B.)

Submitted to IO (PHS Policy, IV.B.)

Acceptable

Correction Deadline

--

Complies program review and facility
inspection(s) results (includes all program
and facility deficiencies)

Acceptable

Correction Deadline

--

Includes minority IACUC views

Acceptable

Correction Deadline

--

Describes IACUC-approved departures from the Guide of PHS Policy and the reasons for each departures.

Acceptable

Correction Deadline

--

Distinguishes significant from minor deficiencies

Acceptable

Correction Deadline

--

Includes a plan and schedule for correction for each deficiency identified.

Acceptable

Correction Deadline

--

Reports to OLAW (PHS, Policy, IV.F.)

Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views.

Acceptable

Correction Deadline

--

Promptly advises OLAW of serious/ ongoing Guide deviations or PHS Policy noncompliance ([NOT-OD-05-034](#))

Acceptable

Correction Deadline

--

Institute must promptly advise OLAW of any suspension of an animal activity by the IACUC ([NOT-OD-05-034](#))

Acceptable

Correction Deadline

--

Reports to U.S. Department of Agricultures (USDA) or Federal agency

Annual report to USDA contains required information including all exceptions/ exemptions.

Acceptable

Correction Deadline

--

Reporting mechanism to USDA is in place for IACUC-approved exceptions to the regulations and standards

Acceptable

Correction Deadline

--

Reports are filed within 15 days for failures to adhere to timetable for correction of significant deficiencies

Acceptable

Correction Deadline

--

Promptly reports suspensions of activities by the IACUC to USDA and any Federal funding agency

Acceptable

Correction Deadline

--

Records (PHS Policy, IV.E.)

IACUC meeting minutes and semiannual reports to the IO are maintained for 3 years

Acceptable

Correction Deadline

--

Records of IACUC reviews of animal activities include all required information

Acceptable

Correction Deadline

--

Records of IACUC reviews are maintained for 3 years after the completion of the study

Acceptable

Correction Deadline

--

Notes

--

Section 8- Veterinary Care (see also next section- Veterinary Care)

An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care.

Acceptable

Correction Deadline

--

Veterinary access to all animals is provided ([Guide, Page 14](#)) [must]

Acceptable

Correction Deadline

Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use. ([Guide, Page 14](#)) [must]

Acceptable

Correction Deadline

Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol ([Guide, Page 5](#))

Acceptable

Correction Deadline

Veterinarian provides consultation when interventional control is not possible ([Guide, Page 5](#)) [must]

Acceptable

Correction Deadline

If part time /consulting veterinarian, visits meet programmatic needs ([Guide, Page 14](#))

Acceptable

Correction Deadline

Regular communication occurs between veterinarian and IACUC ([Guide, Page 14](#))

Acceptable

Correction Deadline

Veterinarian(s) have experience and training in species used ([Guide, Page 15](#)) [must]

Acceptable

Correction Deadline

Veterinarian(s) have experience in facility administration/management ([Guide, Page 15](#))

Acceptable

Correction Deadline

--

Section 9-Personnel Qualifications and Training

All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science.

Personnel included: [must]

Veterinary/other professional staff ([Guide, Page 15-16](#))

Acceptable

Correction Deadline

--

IACUC members ([Guide, Page 17](#))

Acceptable

Correction Deadline

--

Animal care personnel ([Guide, Page 16](#))

Acceptable

Correction Deadline

--

Research investigators, instructors, technicians, trainees, and students ([Guide, Page 16-17](#))

Acceptable

Correction Deadline

--

Continuing education for program and research staff provided to ensure high quality care and reinforce training ([Guide, Page 16-17](#))

Acceptable

Correction Deadline

--

Training is available prior to starting animal activity ([Guide, Page 17](#))

Acceptable

Correction Deadline

--

Training is documented ([Guide, Page 15](#))

Acceptable

Correction Deadline

--

Training Program content includes:

Methods for reporting concerns ([Guide, Page 17](#))

Acceptable

Correction Deadline

Humane practices of animal care (e.g., housing, husbandry, handling)

Acceptable

Correction Deadline

Humane practices of animal use (e.g., research procedures, use of anesthesia pre- and post- operative care, aseptic surgical techniques and euthanasia ([Guide, Page 17](#)))

Acceptable

Correction Deadline

Research/testing methods that minimize numbers necessary obtain valid results ([PHS Policy, IV.A.1.g.](#))

Acceptable

Correction Deadline

Research/testing methods that minimize animal pain or distress ([PHS Policy, IV.A.1.g.](#))

Acceptable

Correction Deadline

Use of hazardous agents, including access to OSHA chemical hazard notices where applicable ([Guide, Page 20](#))

Acceptable

Correction Deadline

Animal care and use legislation ([Guide, Page 17](#))

Acceptable

Correction Deadline

Ethics of animal use and Three R's ([Guide, Page 17](#))

Acceptable

Correction Deadline

Section 10-Occupational Health and Safety of Personnel

Program is in place and is consistent with federal, state, and local regulations ([Guide, Page 18](#))

Correction Deadline

Program covers *all* personnel who work in laboratory animal facility ([Guide, Page 18](#))

Correction Deadline

Changing washing, and showering facilities are available as appropriate ([Guide, Page 19](#))

Correction Deadline

Hazardous facilities are separated from other areas and identified as limited access ([Guide, Page 19](#))

Correction Deadline

Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies ([Guide, Page 20](#)))

Correction Deadline

Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) ([Guide, Page 20](#))

Correction Deadline

Procedures for use storage, and disposal of hazardous biologic, chemical, and physical agents are in place ([Guide, Page 21](#))

Correction Deadline

Personal Protective Equipment for the work area is appropriate and available (Guide, Page 21)

Acceptable

Correction Deadline

Program for medical evaluation and preventive medicine for personnel includes:

Pre-employment evaluation including health history (Guide, Page 22)

Acceptable

Correction Deadline

Immunizations as appropriate (e.g., Rabies, tetanus) and tests as appropriate (Guide, Page 22)

Acceptable

Correction Deadline

Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, Page 23)

Acceptable

Correction Deadline

Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, Page 23)

Acceptable

Correction Deadline

Promotes early diagnosis of allergies including preexisting conditions (Guide, Page 22)

Acceptable

Correction Deadline

Considers confidentiality and other legal factors as required by federal, state and local regulations (Guide, Page 22) [must]

Acceptable

Correction Deadline

If serum samples are collected, the purpose is consistent with federal and state laws (Guide, Page 22) [must]

Not Applicable

Correction Deadline

Waste anaesthetic gases are scavenged
(Guide, Page 21)

Acceptable

Correction Deadline

Hearing protection is provided in high
noise areas (Guide, Page 22)

Acceptable

Correction Deadline

Respiratory protection is available when
performing airborne particulate work
(Guide, Page 22)

Acceptable

Correction Deadline

Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:

Tuberculosis screening provided for all
exposed personnel (Guide, Page 23)

Not Applicable

Correction Deadline

Training and implementation of
procedures for bites, scratches, or injuries
associated with macaques (Guide, Page
23)

Not Applicable

Correction Deadline

PPE is provided including gloves, arm
protection, face masks, face shields, or
goggles (Guide, Page, 21)

Not Applicable

Correction Deadline

Injuries associated with macaques are
carefully evaluated and treatment
implemented (Guide, Page 23)

Not Applicable

Correction Deadline

Occupational safety and health of field
studies is reviewed by OSH committee or
office (Guide, Page 32)

Not Applicable

Correction Deadline

Notes

Section 11- Personnel Security

Preventive measures in place include pre-employment screening, and physical and IT security ([Guide, Page 23](#))

Acceptable

Correction Deadline

Notes

Section 12-Investigating & Reporting Animal Welfare Concerns

Methods for investigating and reporting animal welfare concerns are established ([Guide, Page 23](#)) [must]

Acceptable

Correction Deadline

Reported concerns are corrective actions are documented ([Guide, Page 24](#))

Acceptable

Correction Deadline

Mechanisms for reporting concerns are posted in facility and at applicable website with instructions ([Guide, Page 24](#))

Acceptable

Correction Deadline

Includes multiple contacts ([Guide, Page 24](#))

Acceptable

Correction Deadline

Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection ([Guide, Page 24](#))

Acceptable

Correction Deadline

Notes

Comments

For discussion details see the December 17, 2020 IACUC meeting minutes.

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas with Aseptic Surgery Area

Animal Facility

Robinson Hall

Animals Present

Dogs, Cats

Date

09/22/2020

Personnel Present

L. Christenson, G. Dorsam (via Zoom), N. Dyer, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Acceptable

Correction Deadline

Agricultural animals are housed socially ([Guide, page 60](#))

Not Applicable

Correction Deadline

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

Notes

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Acceptable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Acceptable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Acceptable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Acceptable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Acceptable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Acceptable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Aseptic Surgery Section

Section 1-General Considerations

Location minimizes traffic/contamination
([Guide, page 144](#))

Acceptable

Correction Deadline

Functional components (surgical support, animal preparation, surgeon scrub, operating roo, postoperative recovery) are designed and separated (physically or otherwise) ([Guide, page 144](#))

Acceptable

Correction Deadline

Appropriate drug storage, control, expiration date monitoring ([Guide, page 115, 122](#))

Acceptable

Correction Deadline

Safe sharps disposal system ([Guide, page, 74](#))

Acceptable

Correction Deadline

Adequate records of anesthesia and perioperative care ([Guide, page 122](#))

Acceptable

Correction Deadline

Aseptic procedures in use for all survival surgery ([Guide, page 118-119](#))

Acceptable

Correction Deadline

Notes

Expired medical supplies-disposed of immediately.

Section 2-Operating Room

Effective contamination control procedures ([Guide, page 144](#))

Acceptable

Correction Deadline

--

Effective cleaning procedures/dedicated tools ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Interior surfaces smooth and impervious to moisture ([Guide, page 145](#))

Acceptable

Correction Deadline

--

HVAC systems meets *Guide* requirements ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Lighting safe and appropriate ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Outlets safe and appropriate ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Scavenging of anesthetic gases implemented ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Comments

--

Section 3-Surgical Support

Facility for washing, sterilizing, storing instruments and supplies ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Autoclave monitoring procedures are implemented ([Guide, page 119, 145](#))

Acceptable

Correction Deadline

--

Storage of autoclaved materials maintains sterility ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Cold sterilization procedures are appropriate ([Guide, page 119](#))

Acceptable

Correction Deadline

--

Comments

--

Section 4-Animal Preparation

Contains large sink to facilitate cleaning of animal and operative site ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 5-Surgeon Scrub

Outside operating room, non-hand-operated sink ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 6-Postoperative Recovery

Allows adequate observation, easily cleaned, supports physiological functions, minimizes risk of injury ([Guide, page 145](#))

Acceptable

Correction Deadline

--

Section 7-Dressing Area

Place for personnel to change ([Guide](#),
[page 145](#))

Acceptable

Correction Deadline

Comments

*No signatures obtained due to pandemic

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility	Stevens Hall <input type="text"/>
Animals Present	reptiles, amphibians
Date	07/15/2020
Personnel Present	M. Smith, N. Dochtermann, N. Dyer, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas (Guide, page 134)	Acceptable <input type="text"/>
Correction Deadline	<input type="text"/>

Separation of species (Guide, page 111)	Acceptable <input type="text"/>
Correction Deadline	<input type="text"/>

Separation by disease status (Guide, page 111)	Acceptable <input type="text"/>
Correction Deadline	<input type="text"/>

Security and access control (Guide, page 151)	Acceptable <input type="text"/>
Correction Deadline	<input type="text"/>

Notes	<input type="text"/>
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Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Not Applicable

Correction Deadline

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

Agricultural animals are housed socially ([Guide, page 60](#))

Not Applicable

Correction Deadline

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Not Applicable

Correction Deadline

Notes

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Not Applicable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

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Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Not Applicable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

Blue-tongued skink being monitored for respiratory infection, condition improving.

*Signatures not obtained due to pandemic.

Signatures

Semiannual Facility Inspection Checklist

Terrestrial Animal Housing and Support Areas

Animal Facility

Swine Unit

Animals Present

Pigs

Date

09/18/2020

Personnel Present

G. Bauman, J. Young, C. Byrd, T. Gilbery, L. Christenson, N. Dyer, J. Hayden

Section 1-Location

Animal Areas are separate from personnel areas ([Guide, page 134](#))

Acceptable

Correction Deadline

Separation of species ([Guide, page 111](#))

Acceptable

Correction Deadline

Separation by disease status ([Guide, page 111](#))

Acceptable

Correction Deadline

Security and access control ([Guide, page 151](#))

Acceptable

Correction Deadline

Notes

Section 2-Construction

Corridors ([Guide, page 136](#))

Acceptable

Correction Deadline

--

Animal room doors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Exterior Windows ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Floors ([Guide, page 137](#))

Acceptable

Correction Deadline

--

Drainage ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Walls and Ceilings ([Guide, page 138](#))

Acceptable

Correction Deadline

--

Heating Ventilation and Air Conditioning
([Guide, page 139](#))

Acceptable

Correction Deadline

--

Power and Lighting ([Guide, page 141](#))

Acceptable

Correction Deadline

--

Noise Control ([Guide, page 142](#))

Acceptable

Correction Deadline

--

Vibration Control ([Guide, page 142](#))

Acceptable

Correction Deadline

Environmental Monitoring ([Guide, page 143](#))

Acceptable

Correction Deadline

Notes

Section 3-Room/Cage

Temperature and Humidity ([Guide, page 43](#))

Acceptable

Correction Deadline

Ventilation and Air Quality ([Guide, page 45](#))

Acceptable

Correction Deadline

Illumination ([Guide, page 47](#))

Acceptable

Correction Deadline

Noise and Vibration ([Guide, page 49](#))

Acceptable

Correction Deadline

Notes

Section 4-Primary Enclosure

Space meets physiologic, behavioral and social needs ([Guide, page 51, 55-63](#))

Acceptable

Correction Deadline

Secure environment provided ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Durable, nontoxic materials in good repair and no risk of injury ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Flooring is safe and appropriate for species ([Guide, page 51](#))

Acceptable

Correction Deadline

--

Adequate bedding and structures for resting, sleeping, and breeding ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Objective assessments of housing and management are made ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Procedures for routine husbandry are documented ([Guide, page 52](#))

Acceptable

Correction Deadline

--

Socially housed animals can escape or hide to avoid aggression ([Guide, page 55](#))

Acceptable

Correction Deadline

--

Cage height provides adequate clearance ([Guide, page 56](#))

Acceptable

Correction Deadline

--

Animals express natural postures, can turn around, access food and water, and rest away from urine and feces ([Guide, page 56](#))-MUST

Acceptable

Correction Deadline

--

Rational for Guide/USDA space exceptions approved by IACUC and based on performance indices ([Guide, page 53](#))

Acceptable

Correction Deadline

Dogs and cats allowed to exercise and provided human interaction ([Guide, page 58](#))

Not Applicable

Correction Deadline

Agricultural animals are housed socially ([Guide, page 60](#))

Acceptable

Correction Deadline

Food troughs and water devices for agricultural animals allow access for all animals ([Guide, page 60](#))

Acceptable

Correction Deadline

Notes

New equipment fully in use. The new penning systems are a significant improvement at the swine unit. The drop in animal +

Section 5-Environmental Enrichment, Behavioral and Social Management

Structures and resources promote species typical behavior ([Guide, page 52-54](#))

Acceptable

Correction Deadline

Novelty of enrichment is considered ([Guide, page 53](#))

Acceptable

Correction Deadline

Species specific plans for housing including enrichment, behavior, and activity are developed and reviewed regularly by ICUC, researchers and veterinarian ([Guide, page 53, 58, 60, 63](#))

Acceptable

Correction Deadline

Animal care personnel receive training to identify abnormal animal behaviors ([Guide, page 53](#))

Acceptable

Correction Deadline

--

Stability of pairs or groups is monitored for incompatibility ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is justified for social species ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is limited to the minimum period necessary ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Additional enrichment for single housed animals is provided ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Single housing is reviewed regularly by IACUC and veterinarian ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Habitation to routine procedures is part of enrichment program ([Guide, page 64](#))

Acceptable

Correction Deadline

--

Notes

--

Section 6-Sheltered or Outdoor Housing (e.g. barns, corrals, pastures)

Weather protection and opportunity for retreat ([Guide, page 54](#))-MUST

Not Applicable

Correction Deadline

--

Appropriate size (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Ventilation and sanitation of shelter (no waste/moisture build-up) (*Guide*, page 54)

Not Applicable

Correction Deadline

--

Animal Acclimation (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Social Compatibility (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Roundup/Restraint procedures (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Appropriate security (*Guide*, page 55)

Not Applicable

Correction Deadline

--

Notes

--

Section 7-Naturalistic Environments

Animals added/removed with consideration of effect on group (*Guide*, page 55)

Acceptable

Correction Deadline

--

Adequate food, fresh water, and shelter ensured (*Guide*, page 55)

Acceptable

Correction Deadline

--

Notes

Section 8-Food

Feeding schedule and procedures including caloric intake management ([Guide, page 65-67](#))

Acceptable

Correction Deadline

Contamination prevention ([Guide, page 65](#))

Acceptable

Correction Deadline

Vendor quality control ([Guide, page 65](#))

Acceptable

Correction Deadline

Storage in sealed containers ([Guide, page 66](#))

Acceptable

Correction Deadline

Expiration date labeling ([Guide, page 66](#))

Acceptable

Correction Deadline

Vermin Control ([Guide, page 66](#))

Acceptable

Correction Deadline

Rotation of stock ([Guide, page 66](#))

Acceptable

Correction Deadline

Notes

ClariFly now being used in feed to help control flies.

Section 9-Water

Ad libitum unless justified ([Guide, page 67-68](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 67-68](#))

Acceptable

Correction Deadline

Notes

Section 10-Bedding and Nesting Materials

Species Appropriate ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Keeps Animals Dry ([Guide, page 68-69](#))

Acceptable

Correction Deadline

QC procedures ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Minimizes scientific variables ([Guide, page 68-69](#))

Acceptable

Correction Deadline

Notes

Section 11-Sanitation

Frequency of bedding/substrate change ([Guide, page 70](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
microenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Cleaning and disinfection of
macroenvironment ([Guide, page 70-71](#))

Acceptable

Correction Deadline

Assessing effectiveness ([Guide, page 73](#))

Acceptable

Correction Deadline

Notes

Section 12-Waste Disposal

Procedures for collection ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Procedures for storage and disposal
([Guide, page 73-74](#))

Acceptable

Correction Deadline

Hazardous wastes are rendered safe
before removal from facility ([Guide, page 73-74](#))-MUST

Acceptable

Correction Deadline

Animal carcasses ([Guide, page 73-74](#))

Acceptable

Correction Deadline

Notes

Section 13-Pest Control

Regularly scheduled ([Guide, page 74](#))

Acceptable

Correction Deadline

Documented program including control of rodent pests and insecticide use ([Guide, page 74](#))

Acceptable

Correction Deadline

Notes

Section 14-Emergency, Weekend, and Holiday Animal Care

Care provided by qualified personnel every day ([Guide, page 74](#))

Acceptable

Correction Deadline

Provision for accessible contact information ([Guide, page 74](#))

Acceptable

Correction Deadline

Monitoring of backup systems ([Guide, page 143](#))

Acceptable

Correction Deadline

Veterinary care available after hours, weekend, and holidays ([Guide, page 74, 114](#))-MUST

Acceptable

Correction Deadline

A disaster plan must that takes into account both personnel and animals ([Guide, page 45](#))

Acceptable

Notes

Section 15-Identification

Cage/rack cards contain required information ([Guide, page 75](#))

Acceptable

Correction Deadline

Genotype information included and standardized nomenclature used when applicable ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 16-Recordkeeping

Clinical records accessible and contain appropriate information ([Guide, page 75-76](#))

Acceptable

Correction Deadline

Records are provided when animals are transferred between institutions ([Guide, page 75](#))

Acceptable

Correction Deadline

Notes

Section 17-Breeding Genetics and Nomenclature

Appropriate genetic records, management and monitoring procedures ([Guide, page 76](#))

Acceptable

Correction Deadline

Phenotypes that affect wellbeing are reported to IACUC and effectively managed ([Guide, page 77](#))

Acceptable

Correction Deadline

Notes

Section 18-Storage

Adequate space for equipment, supplies, food, bedding and refuse ([Guide, page 141](#))

Acceptable

Correction Deadline

Bedding in vermin-free area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Food in vermin-free, temperature and humidity controlled area and protected from contamination ([Guide, page 141](#))

Acceptable

Correction Deadline

Refuse storage is separate ([Guide, page 141](#))

Acceptable

Correction Deadline

Carcass and animal tissue storage is separate, refrigerated below 7 degrees Celcius and cleanable ([Guide, page 141](#))

Acceptable

Correction Deadline

Notes

Section 19-Personnel

Adequate space for locker rooms, administration and training ([Guide, page 135](#))

Acceptable

Correction Deadline

Notes

Comments

*No signatures obtained due to pandemic.

Signatures