

Memorandum to: Dr. Noelle Anglin, Research Leader, ENVIROTRON, Hagerman, ID

From: Institutional Animal Care and Use Committee

Subject: Semiannual Report of the Program Review and Facility Inspection

Date: 9-8-2023

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.

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

Departures from the AWA and the Ag Guide.

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: *[include reason for each departure]*

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

Animal Care and Use Program Review Date(s): 3-10-2023 to 9-8-2023

Select A or B:

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

III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s): 3-17-2023 to 9-8-2023

Select A or B:




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

IV. Minority Views

Select A or B:

- A. No minority views were submitted or expressed.
- B. The following minority views were expressed: *[insert minority views here or attach]*

V. Signatures *[signatures of a majority of the IACUC members required by AWAR (§2.31,c,3), if applicable]*

Names of IACUC Members	Signatures
Thomas L. Welker	
Ken Overdorf	
Todd E. Wenz DVM	



- The IACUC reviews significant changes to approved protocols in accordance with 9 CFR 2.31(c)(7), 2.31(d)(8), and 2.31(e).
- If the need arises, the IACUC is authorized to suspend research by a majority vote in accordance with 9 CFR 2.31(c)(8), 2.31(d)(6), 2.32(d)(7).
- The IACUC has procedures to review and investigate animal care concerns from the public or facility personnel in accordance with 9 CFR 2.31(c)(4).
- The IACUC adheres to minimum recordkeeping requirements, as specified in 9 CFR 2.35.
- *Minutes of IACUC meetings are prepared, and include a record of members in attendance.*
 - *Records of approved activities and/or significant changes to approved activities involving animals are kept.*
 - *Semi-annual program review and facility inspection reports, with recommendations and minority viewpoints, are prepared and maintained.*
 - *Program records are maintained for a minimum of 3 years, and records pertaining to animal usage activities are maintained for a minimum of 3 years after the activity has concluded.*
 - *When needed, use of an externally administered IACUC is clearly documented in a written agreement.*
- There is an Attending Veterinarian (AV), who ensures that an adequate program of veterinary care has been established in accordance with 9 CFR 2.33.
- *The AV has direct or delegated authority to oversee all aspects of animal care and use, and there are provisions for backup care when needed.*
 - *There is a written Program of Veterinary Care that includes regularly scheduled visits when veterinary care is provided by a part-time consultant.*
 - *Animals are observed daily, unless less frequent observation is specifically approved by the IACUC.*
 - *Direct and frequent communication takes place between investigators and animal care staff with the AV, or appropriate delegate, to ensure accurate information on animal health, behavior, and well-being is provided in a timely manner.*
 - *The AV has appropriate training in the species maintained at the facility.*
 - *The AV maintains regular communication with the IACUC, and provides guidance to investigators and other personnel regarding husbandry, handling, immobilization, sedation, analgesia, anesthesia, and euthanasia.*
 - *The AV provides oversight for surgery and peri-operative care of animals that is consistent with current veterinary medical and nursing procedures.*
 - *The AV provides oversight of the assessment, treatment plan, and medical recordkeeping requirements for animals requiring veterinary care.*
- All personnel involved in animal activities are adequately trained and qualified to perform their respective duties in accordance with 9 CFR 2.32.
- At minimum, training must be provided in: (1) humane methods of animal maintenance and experimentation; (2) the concept, availability, and use of research or testing methods that minimize pain/distress or limit the use of animals (the three R's); (3) proper administration of anesthetics, analgesics, and tranquilizers by those responsible for their use; (4) procedures for reporting deficiencies in animal care; and (5) utilization of services available to provide information on alternatives.*
- Animals are not abused and are handled in a manner that is expeditious and careful not to cause trauma, overheating, excessive cooling, stress, physical harm, or unnecessary discomfort, as specified in 9 CFR 2.38(f).



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Location: Hagerman ID Environtran Date: 9/8/23

This location's IACUC of record was reviewed on this date and confirmed to be fulfilling all regulatory responsibilities, as defined below. A checked box indicates the committee's compliance.

- IACUC Membership complies with 9 CFR 2.31(a)(b) and 2.33(a)(3).
The committee has at least 3 members appointed by the highest ranking location official, including (1) a nonaffiliated member representing the general public's interests; (2) a veterinarian; and (3) a Chair.
- The IACUC conducts animal program reviews and facility inspections at least once every 6 months in accordance with 9 CFR 2.31(c)(1-3).
The review is conducted by at least 2 IACUC members, and documented as a report that (1) includes minority views; (2) identifies departures from regulations or standards, with reasons for departures; (3) distinguishes significant from minor deficiencies; (4) provides reasonable and specific plans/dates/schedules for corrections of deficiencies; (5) has been reviewed and signed by a majority of IACUC members; and (6) is submitted to the Institutional Official.
- The IACUC reviews proposed research activities involving animals in accordance with 9 CFR 2.31(c), 2.31(d)(1-5), and 2.31(e).
- Every member is provided with a complete list of activities under review in advance.
 - Any member can request for a specific proposal to be reviewed by the full committee.
 - Approval is required before research can be initiated, and must be re-reviewed at least annually as long as the research is in progress.
 - Members with potential conflicts are recused and do not vote during the review and approval process.
- Approved protocols include assurances and/or statements, as required by 9 CFR 2.31(d)(1) and 2.31(e).
- Proposed procedures do not unnecessarily duplicate previous experiments.
 - A sound rationale for the use of live animals, and for the species and number of animals requested has been provided.
 - A complete description of how animals will be used in experiments is provided.
 - Pain and distress are avoided or minimized, and procedures used to minimize pain and discomfort are completely described.
 - Methods of euthanasia are described and consistent with the AVMA Guidelines.
 - Proposed animal activities with the potential to cause pain/distress include: (1) the Attending Veterinarian's input relative to pain management; (2) a description of drugs or methods used to mitigate anticipated pain/distress; and (3) results of a search for alternatives to painful procedures that includes information sources consulted and search methods, terms, etc. used. Paralytic agents cannot be used without anesthesia.
 - Painful procedures that cannot be alleviated must be scientifically justified, and continued only for the minimum time necessary.
 - Survival surgeries are conducted aseptically and in dedicated facilities.
 - Pre- and post-operative care is fully described.
 - No animal is used in multiple major survival surgeries, unless: (1) written scientific justification has been provided; (2) the added surgeries are required veterinary procedures or needed to protect the animal's health; or (3) other special circumstances apply and have been approved by the APHIS Administrator.

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APHIS 41-35-036

Institutional Animal Care and Use Committee (IACUC) Guidelines

Note: These are guidelines and are not meant to replace the Animal Welfare Act (AWA), regulations, or standards. "Checked" box implies compliance. If an item is not relevant, place "NA" in the box.

1. **Membership of IACUC: 2.31 (a)(b) and 2.33 (a)(3)**
 - 3+ members appointed by CEO. Includes at least one nonaffiliated person, one veterinarian, and a chair.
2. **Program Review and Facility Inspection: 2.31 (c)(1) and (c)(2)**
 - At least once every 6 months by at least two IACUC members.
3. **Program Review and Facility Inspection Reports: 2.31(c)(3)**
 - IACUC majority reviews, signs, and submits to Institutional Official.
 - Contains minority view.
 - Identified departures from regulations or standards and reasons.
 - Distinguishes significant from minor deficiencies.
 - Provides reasonable and specific plan and schedule for corrections
 - Nonadherence to plan of correction for significant deficiencies reported within 15 business days to APHIS and any Federal funding agency.
4. **Review/Investigate Complaints About Animal Care: 2.31 (c)(4)**
 - Complaints may be from the public or from facility personnel [refer also to 2.32 (c)(4)].
5. **Recommendations Concerning Animal Care Program: 2.31 (c)**
 - To Institutional Official about animal care and use program, facilities, or personnel training.
6. **Review of Protocols: 2.31 (c)(6) and 2.31 (d)(1-5) and (e)**
 - Ongoing protocols are reviewed as a new protocol every three years.
 - All IACUC members given list of proposed protocols prior to review.
 - Full committee (quorum) can be convened at request of *one* member.
 - IACUC reviewer must have no conflict of interest with the protocol.
 - May use nonvoting consultants.
 - No study is to begin before IACUC review and approval.
7. **Review Significant Changes to Approved Protocol: 2.31 (c)(7) and (d)(8), 2.31 (e)**
 - IACUC must preapprove significant changes to protocol.

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8. Authorization to Suspend a Protocol: 2.31 (c)(8) and (d)(6), 2.32 (d)(7)

- IACUC can suspend approved protocol with majority vote of convened quorum.
- Report suspensions to APHIS and any Federal funding agency.

9. Field Study Exemption from Protocol and Facility Review: 2.31 (c)(2) and (d)(1)

NA

- Part 1 defines field study as using free-living wild animals in natural habitat without invasive procedures, harm, or altering of behavior.

10. Assurances and/or Statements Required in Written Protocols: 2.31 (d)(1) and (e)

All Proposed Animal Activities

- Procedure does not unnecessarily duplicate previous experiments.
- Animals' living conditions are appropriate.
- Medical care is available for the animals. (also 2.33)
- Qualified and trained personnel are involved with procedures. (also 2.32)
- Discomfort, distress, and pain are minimized.
- If used in two major surgeries, animal is not allowed to recover (unless justified).
- Description of preoperative and postoperative care.
- Survival surgery is conducted aseptically in dedicated facilities.
- Rationale for species and number of animals.
- Rationale for using animals.
- Complete description of proposed use of the animals.
- Complete description of procedures designed to assure that discomfort and pain are minimized.
- Complete description of method of euthanasia.

All Proposed Animal Activities with Potentially Painful Procedures 2.31 (d)(1)(i-iv)

- Discomfort, distress, and pain are minimized.
- Method used, alternative information sources searched with a written list of parameters used for the search.
- Procedure does not unnecessarily duplicate previous experiments.
- Use of proper drugs for relief of pain/distress. No paralytics without anesthesia.
- Attending veterinarian is involved in planning. (also 2.33)

11. IACUC Records: 2.35 (a)(1-3)

- Minutes, proposed activities or significant changes, approvals or disapprovals of protocols, and semiannual reports with recommendations.

12. Exceptions to Regulations and Standards: 2.36 (b)(3)

- IACUC-approved exceptions to regulations and standards attached to annual report (APHIS Form 7023).

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotope, etc.) should contact the USDA Office of Communications at (202) 720-5881 (voice) or (202) 720-7808 (TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, DC 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Reviewer (name and signature)

Thomas L. Welker

Date:

8 Sept. 2023

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4. **Review/Investigate Complaints About Animal Care: 2.31 (c)(4)**
 - Complaints may be from the public or from facility personnel [refer also to 2.32 (c)(4)].
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Reviewer (name and signature) Ann Overleaf Date: 9/8/23

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Reviewer (name and signature) *J. E. White mm* Date: 9/8/23