**VA SEMIANNUAL EVALUATION**

**of the**

**INSTITUTIONAL ANIMAL CARE AND USE PROGRAM AND FACILITIES**

**Part 1 – Checklist**

**Section B. Inspection of the Facilities**

The Inspection of the Facilities focuses on a physical and visual evaluation of buildings, equipment, and the environment in which animals are maintained and utilized. Some of the items here appear similar to items included in Section A (Review of the Program), but the focus here (Inspection of the Facilities) is on what is actually observed in the animal facilities, while Section A focuses on what is intended or designed.

*NOTE: The checklist is designed to prompt review according to regulatory requirements, and focuses on the minimum standards that must be met. The wording in the checklist is not to be interpreted as altering the regulatory requirements in any way, but represents guidance from the office of the CVMO. For specifics about the regulatory requirements and recommended best practices, the references provided in square brackets must be consulted:*

*“1200.01” refers to the “VHA Handbook 1200.01, Research and Development (R&D) Committee”,*

*“1200.07” refers to the “VA Handbook 1200.07, Use of Animals in Research”,*

*“PHS” refers to the “PHS Policy on Humane Care and Use of Laboratory Animals”,*

*“9 CFR” refers to the “USDA Animal Welfare Act Regulations and Standards, Code of Federal Regulations, Title 9”,*

*“US Govt Principle” refers to the “US Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training”, and*

*“Guide” refers to the National Research Council’s “Guide for the Care and Use of Laboratory Animals”, 8th edition, 2011*

Instructions:

1) Enter identifying information in the header above:

Double click in the header area.

Then enter text after each “:”

(Note: Federal regulations require that a new Review of the Program be completed every 6 months *[PHS (IV.B.1); 9 CFR (2.31(c)(1))]*, and a new Inspection of the Facilities be completed every 6 months *[PHS (IV.B.2); 9 CFR (2.31(c)(2))]*. The “Date of Semiannual Evaluation” is the date on which the last of the components of the semiannual evaluation was completed.)

Double click in the document area to return to the main body of the form.

2) Enter the information requested below. The “►” symbols indicate required information:

►Date(s) of the most recent previous Inspection of the Facilities:

►Date(s) on which this Inspection of the Facilities was conducted:

**Names of voting IACUC members who participated in the Facility Inspection:**

*(The Facility Inspection team must include a minimum of two voting members of the IACUC [9 CFR (2.31(c)(3))]. Any non-members who also participate, at the discretion of the IACUC, may be listed in the second table.)*

|  |  |  |
| --- | --- | --- |
| Name | Specific Role on IACUC (if any) | Date(s) of Participation |
| ► |  |  |
| ► |  |  |
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**Non-IACUC members who participated in the Facility Inspection**:

|  |  |  |
| --- | --- | --- |
| Name | Title | Date(s) of Participation |
|  |  |  |
|  |  |  |

3) The IACUC must inspect semiannually all units of the animal care and use program, including the following:

all areas within the VA animal facilities;

all spaces outside the VA animal facilities where animals are housed for > 12 hours;

any areas where any procedure is performed on animals.

Identify each unit subject to inspection (press Tab in bottom right cell to add rows to the table):

|  |  |  |  |
| --- | --- | --- | --- |
| **Location**  (name of site, building name and room number, etc.) | **Species** | **Type of Space**  (e.g., VMU, satellite, investigator laboratory) **and the Nature of the Procedures Performed** (e.g., housing, terminal surgery, behavioral training, etc.) | **Name and Role**  (e.g., VMU Supervisor, PI)  **of Responsible Individual** |
|  |  |  |  |
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|  |  |  |  |
|  |  |  |  |

4) For each item in the checklist, type “X” in the column that applies (shaded cells should not be used):

Not Applicable

Acceptable

Approved Departure (approved by the IACUC)

Minor Deficiency

Significant Deficiency

Could Not Evaluate (during this inspection)

## The last line of each section of the checklist is designated “Other Observations”, for documentation of relevant observations that are not directly addressed by the checklist items.

5) For each item marked as an Approved Departure, a Minor Deficiency, or a Significant Deficiency here (Part 1, Section B), provide details in Part 2 of this form.

6) Items that reflect changes in the 8th edition of the *Guide* are flagged as follows, and may require particular attention as the 8th edition is implemented.

**‡denotes a new “must” item**

† **denotes a new “should” item**

**I. Implementation of Institutional Policies**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A. Performance of Work According to Protocol** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1150 | Current versions of IACUC approved protocols are readily available to animal care staff as well as research staff. |  |  |  |  |  |  |
| 1151 | Animal research procedures (observed by the IACUC inspection team includes but is not limited to conduct of surgery, behavioral testing, training, exercise, administration of anesthetics and analgesics, etc.) are being performed according to the protocols approved by the IACUC. *[PHS (IV.C.1); Guide (p. 33-34)]* |  |  |  |  |  |  |
| 1152 | Individuals observed working with animals are identified  on the corresponding protocols approved by the IACUC. |  |  |  |  |  |  |
| 1153 | Routine husbandry tasks observed are being performed  according to documented SOPs. |  |  |  |  |  |  |
| **B. Addressing Concerns about Animal Welfare** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1200 | Contact information for responsible local and VA Central  Office personnel are posted prominently in the animal facility for reporting of animal welfare concerns. *[1200.07 (8.k(2)); Guide (p. 24)]* |  |  |  |  |  |  |
| **C. Occupational Health and Safety** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1250 | Appropriate hazard signs and relevant safety protocols  are posted in plain view, and the MSDSs are readily  available, where specific hazardous agents are in use.  *[1200.07 (Appendix C-8.h(1)-(2))*] |  |  |  |  |  |  |
| 1251 | Wherever gas anesthetics are used, waste anesthetic gas is removed via a scavenging system or by another approved method. *[Guide (p. 21; 145)]* |  |  |  |  |  |  |
| 1252 | Labels on safety equipment (e.g. eye wash, emergency  shower, fume hoods, etc.) indicate that maintenance and  certification are current. *[Guide (p. 20)]* |  |  |  |  |  |  |
| 1253 | Good safety practices are evident as indicated by proper glass and sharps disposal, gas cylinders appropriately secured, proper separation of chemicals and wastes, etc. *[Guide (p.74)]* |  |  |  |  |  |  |
| 1254 | Supplies are readily available for treatment of bites, scratches, and puncture wounds according to current  CDC recommendations. *[Guide (p. 23)]* |  |  |  |  |  |  |
| 1255 | Adequate supplies of appropriate attire and clean protective clothing, including disposable PPE (e.g. gloves masks, shoe covers, etc.) are readily available; soiled items are disposed of, laundered, or decontaminated according to approved facility procedures. *[1200.07(Appendix E-2.e) ;Guide (p. 20-22)]* |  |  |  |  |  |  |
| 1256 | The IACUC inspection team determined that with regard to the use of hazardous agents, appropriate procedures, containment equipment, and personal protective equipment are used to safeguard personnel and animal health and are consistent (where applicable) with APHIS, USDA, and CDC Select Agent Regulations and other federal, state, and local regulations including security measures.  *[1200.07 (Appendix E-2(l)); Guide (p. 20-22; 148-149)]* |  |  |  |  |  |  |
| **D. Other observations** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1300 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### II. Physical Plant

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A. General** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1350 | Corridors are sufficiently wide and clear of obstacles so that personnel and equipment can move easily without impediment.  *[Guide (p. 136)]* |  |  |  |  |  |  |
| 1351 | Floor surfaces are moisture-resistant, nonabsorbent, and impact-resistant; floors are in good condition, without cracks, evidence of delamination or deterioration, of appropriate texture,  and are clean and sanitized. *[Guide (p. 137-138); 9 CFR (Part 3, Standards)]* |  |  |  |  |  |  |
| 1352 | Floors slope appropriately to drains; drains are filled with liquid, and those not in use for long periods are capped/covered. *[Guide (p. 138)]* |  |  |  |  |  |  |
| 1353 | Wall and ceiling surfaces are smooth, moisture-resistant, nonabsorbent, impact-resistant, washable, and free of unsealed penetrations. These surfaces were found to be clean, sanitized according schedule, free of defects and evidence of water damage. *[Guide (p. 138-139); 9 CFR (Part 3, Standards)]* |  |  |  |  |  |  |
| 1354 | Doors are adequately sized, fit tightly within their frames, are sealed to prevent vermin entry, and are in good repair; preferred features include self-closing mechanism, sweeps, recessed handles, and protective hardware. *[Guide (p. 137)]*  Note: With the exception of doors with viewing windows that are needed for safety and other reasons, windows in animal facilities should generally be avoided.) *[Guide (p. 137)]* |  |  |  |  |  |  |
| **Heating, Ventilation, and Air-Conditioning (HVAC) System** | |  |  |  |  |  |  |
| 1355 | Maintenance of temperature, humidity, and air pressure differentials within recommended ranges throughout the facility is documented. *[Guide (p. 43-47)]*  ►List the document(s) reviewed: |  |  |  |  |  |  |
| 1356 | HVAC reheat units serving animal rooms fail in the “off” position, as designed, to prevent over-heating of animals. *[1200.07 (7.a(2)(a))]* |  |  |  |  |  |  |
| 1357 | Effective back-up mechanisms are in place to maintain temperatures and humidity within acceptable ranges in the event of an electrical outage or failure of the HVAC system in the animal research facility. *[Guide (p. 141)]* |  |  |  |  |  |  |
| **Power & Lighting** | |  |  |  |  |  |  |
| 1358 | Moisture-resistant switches and outlets, and ground-fault interrupters, have been installed in wet areas (e.g. cage processing, aquatic holding areas, etc.) *[Guide (p. 141)]* |  |  |  |  |  |  |
| 1359 | Light fixtures, timers, switches, and outlets are properly sealed to  prevent vermin from being harbored in them. *[Guide (p. 141)]* |  |  |  |  |  |  |
| 1360 | Protective covers are in place over light bulbs and light fixtures.  *[Guide (p. 141)]* |  |  |  |  |  |  |
| 1361 | In the event of a power failure, alternative or emergency power supply is available to maintain critical services. *[Guide (p. 141)]* |  |  |  |  |  |  |
| **Noise Control** | |  |  |  |  |  |  |
| 1362 | Noise reduction practices are utilized. *[Guide (p. 49-50; 142)]*  For example:   * Entry doors from corridors to animal housing areas are closed when not in use. * Carts, racks, and other equipment are equipped with casters. * Noisy animals are grouped in one section of the animal * facility. * Sound-generating equipment is selected and located to minimize disturbance to animals |  |  |  |  |  |  |
| 1363 | Vibration dampening procedures are practiced where applicable.  *[Guide (p. 142)]* |  |  |  |  |  |  |
| **Environmental Monitoring** | |  |  |  |  |  |  |
| 1364 | Environmental conditions in animal holding spaces and other sensitive areas are monitored and verified by one or more mechanism or systems.  *[Guide (p. 143)]* |  |  |  |  |  |  |
| **B. Facilities for Sanitization** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1400 | A dedicated cage and equipment processing area of appropriate size and design (including safety features, traffic flow, utilities, egress, HVAC capacity, clean storage, etc.) is available and meets program needs.*[Guide (p. 143)]* |  |  |  |  |  |  |
| 1401 | Appropriate safety precautions and equipment are in place and in use; including but not limited to protective clothing and equipment, posting of standard operating procedures and warning signage, eyewash/shower stations, and functioning safety devices to prevent trapping of personnel inside of walk-in equipment (e.g., cage/rack washers, bulk sterilizers). *[Guide (p. 143)]* |  |  |  |  |  |  |
| 1402 | Cage wash temperatures and sterilizer effectiveness are monitored and appropriate records are maintained. *[Guide ( p. 72-73)]* |  |  |  |  |  |  |
| **C. Storage Areas** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1450 | Food and bedding, toxic or hazardous agents, and wastes are  stored in separate designated areas. *[Guide (p. 141)]* |  |  |  |  |  |  |
| 1451 | Food and bedding is stored in a vermin-free area and is protected from contamination. Temperature and humidity conditions are appropriate in food storage areas. *[Guide (p. 141)]* |  |  |  |  |  |  |
| 1452 | Food stuffs/diets are obtained from reputable vendors and are managed to maintain quality*[Guide (p. 65- 67)]*:   * Feed bag stocks are rotated and used prior to expiration date or discarded. * Open bags of feed are stored in sealed, vermin-proof containers. * The storage area is clean and orderly; feed bags are stored off the floor on pallets, racks, or by other methods with adequate clearance from the wall to ensure good sanitation. |  |  |  |  |  |  |
| 1453 | Bedding bags are stored off the floor on pallets, racks, or by other methods with adequate clearance from the wall to ensure good sanitation. Autoclaved bedding has been allowed to dry before use or storage. [*Guide (p. 69)]* |  |  |  |  |  |  |
| 1454 | Refrigerated storage for animal carcasses and tissue waste is at  <7°C (44.6 °F). *[Guide (p. 142)]* |  |  |  |  |  |  |
| **D. Facilities for Aseptic Surgery** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1500 | Are located and designed to minimize traffic and/or contamination; the facilities include areas for surgical support, animal preparation, surgeon scrub, operating room and postoperative recovery that separate the related non-surgical activities from the operating room. Equipment and services needed to support the use of the surgery facility are available. *[Guide (p. 144-145)]* |  |  |  |  |  |  |
| 1501 | Procedures are in place and have been implemented to assure effective sanitation of the operating room, surgical instruments and equipment, appropriate management and use of stored sterile supplies, scavenging of anesthetic gases, monitoring of drug inventory, and recordkeeping for anesthesia and postoperative care. *[Guide (p. 115; 122; 144-145)]* |  |  |  |  |  |  |
| 1502 | Equipment needed to support aseptic surgery (e.g., autoclaves, anesthetic vaporizers, etc.) are in good repair and certifications are current. *[Guide (p. 20}* |  |  |  |  |  |  |
| **E. Special Facilities**  *(include barrier, aquatics laboratory study areas, procedure areas, imaging, core service facilities ,etc.)* | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1550 | Where applicable, the facility/room has appropriate drug storage/monitoring, sharps disposal, anesthetic monitoring and scavenging, safety equipment/procedures (safety signage, eyewash stations, secured gas cylinders, etc.) and carcass disposal. *[Guide (p.19-21;73-74;115;120;122;134)]* |  |  |  |  |  |  |
| 1551 | Specialized facilities have procedures and equipment in place to minimize contamination risk. *[Guide (p. 147-150)]* |  |  |  |  |  |  |
| 1552**‡** | Appropriate sensors and ventilation are provided for areas where cryogen gases are used or stored. *[Guide ( p 147)]* |  |  |  |  |  |  |
| 1553 | Aquatic housing areas feature water impervious surfaces, slip resistant floors, ground-faulted electrical receptacles or circuits, and HVAC capacity to maintain appropriate temperature and humidity control. *[Guide ( p 150-151)]* |  |  |  |  |  |  |
| **F. Ancillary Areas** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1600 | Showers, sinks, toilets, locker rooms, and break areas are available for personnel and are separate from animal holding or support areas. [*Guide (p. 19; 136)]* |  |  |  |  |  |  |
| 1601 | Space for administrative and supervisory personnel, including space for staff training and education are available and separate from animal holding or animal support areas. [*Guide (p 136)]* |  |  |  |  |  |  |
| **G. Security** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1650 | Perimeter doors are closed and locked. *[1200.07 (7.i)]* |  |  |  |  |  |  |
| 1651 | Security measures are in practice and mechanisms for controlling entry into the facility function appropriately. *[1200.07 (7.i); 1200.01.9.c; Guide (p. 23;151)]* |  |  |  |  |  |  |
| **H. Other Observations** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1700 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### III. Animal Environment, Housing, and Management

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A. Physical Environment** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| **Temperature, Humidity, and Ventilation** | |  |  |  |  |  |  |
| 1750 | Temperature and humidity in animal rooms are within acceptable ranges.  *Guide (p. 43)]* |  |  |  |  |  |  |
| 1751 | Odors, ammonia levels, and drafts are all within acceptable  limits; ventilation and air quality are adequate. *[Guide (p. 45)]* |  |  |  |  |  |  |
| 1752 | The supply air to animal holding is 100 % outside air treated with appropriate filtration.  Note: Exhaust air recycled into HVAC systems serving multiple rooms is a cross contamination risk and generally should be avoided. Exhaust air should be treated with at least 85-95% ASHRAE efficient filters prior to recycling. *[Guide (p. 45-47; 140)]* |  |  |  |  |  |  |
| **Illumination** | |  |  |  |  |  |  |
| 1753 | Lighting in animal rooms is on appropriate diurnal cycles. *[Guide*  *(p. 47)]* |  |  |  |  |  |  |
| 1754 | The intensity, quality, distribution, and rates of change of  intensity of the light are appropriate to the species in each room.  *[Guide (p. 47-48)]* |  |  |  |  |  |  |
| **Noise** | |  |  |  |  |  |  |
| 1755 | Radios and other equipment that produce unnecessary sound  audible to the animals are not in use in animal rooms, except as  required by approved protocols for research or enrichment.  Vibration is minimized where possible. *[Guide (p. 49-50)]* |  |  |  |  |  |  |
| **B. Husbandry** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| **General** | |  |  |  |  |  |  |
| 1800 | Animals are appropriately separated by species and disease status.  *[Guide (p.111)]* |  |  |  |  |  |  |
| 1801 | Animal handling (observed by the IACUC inspection team) is appropriate to the species. |  |  |  |  |  |  |
| 1802 | Room logs confirm that daily observation of each animal, as well as cage cleaning, feeding, and watering are performed at appropriate intervals. *[1200.07(7.c)]* |  |  |  |  |  |  |
| 1803 | Special procedures (e.g., diet or water scheduling/restriction, prolonged restraint, etc.) are conducted as described in the IACUC approved protocols based on IACUC inspection team observations. *[1200.07 (Appendix D-1.u); PHS (IV.C.1); Guide (p. 27-33)]* |  |  |  |  |  |  |
| **Housing – Primary Enclosures** | |  |  |  |  |  |  |
| 1804**†** | Primary enclosures, cages, and shelters are appropriate (in terms of size, construction, floor space, height, etc.) for the species housed. *[9 CFR (Part 3, Standards); Guide (p. 51-57 and 55-63;* the *Ag* *Guide]* Note:   * The recommended minimum rabbit cage height is16 inches; rabbit cages that are less than 16 inches in height may be used if the IACUC has determined through performance assessments that the cage is sufficient to meet the behavioral, physical, and physiological needs of the animal. *[Guide(p.58-59)]* * The recommended minimum floor space for a female mouse + litter is 51 in2 ; trio breeding may be appropriate in a cage providing 75-82 in2 of floor space; the IACUC should make this determination based on the outcome of performance based standards. *[Guide (p.56-58)]* |  |  |  |  |  |  |
| 1805**‡** | The primary enclosure allows the animal to express natural  postures, turn around, access food and water, and rest  away from urine and feces. *[Guide ( p.56)]* |  |  |  |  |  |  |
| 1806 | The primary enclosures (cages, tanks, pens, stalls, etc.) and  accessories are clean, in good condition, and are free of rust  and sharp edges; the enclosure provides safe species appropriate housing. *[Guide (p. 51)]* |  |  |  |  |  |  |
| 1807**‡** | Outdoor housing provides protection from extreme weather, conditions, the opportunity to retreat, and is adequately ventilated. *[Guide (p. 54-55)]* |  |  |  |  |  |  |
| 1808 | Procedural laboratories that house animals for more than 12 hours meet the minimum standards for housing. *[1200.07 (Appendix E-3.b)]* |  |  |  |  |  |  |
| **Population Management** | |  |  |  |  |  |  |
| 1809 | Animal records (e.g., cage cards) include the following  information, as appropriate *[Guide (p. 75-76); 9 CFR (2.35)]*:   * Source of animals * Strain or stock (including genotype using standard nomenclature where applicable) * Name and contact information for PI * Protocol number * Pertinent dates (e.g., acquisition by facility, birth) * Number of individuals per group, when identified in groups * Age or weight * Gender * Individually identifiable features (e.g., markings, tattoos, ear * tags, neck chains, implanted microchips, etc.) |  |  |  |  |  |  |
| 1810 | The IACUC inspection team determined that animal records are readily available, appropriately detailed, properly maintained, and accompany animals when transferred to another institution.  *[Guide (p. 75-77)]* |  |  |  |  |  |  |
| **Behavioral Management** | |  |  |  |  |  |  |
| 1811 | The IACUC inspection team determined that the environmental enrichment program is appropriate to the species, ages, and number of animals housed and is beneficial to and safe for the animals.  *[Guide (p. 52-54)]* |  |  |  |  |  |  |
| 1812 | Animals are housed in compatible social groups as appropriate; socially housed animals are able to escape or hide from aggressive animals, and have ready access to food and water.  *[Guide (p. 51-60;63-65)]* |  |  |  |  |  |  |
| 1813 | The IACUC inspection team reviewed the records of singly housed animals; *Guide* recommendations for singly housed animals are being followed. *[Guide (p. 64)]* |  |  |  |  |  |  |
| 1814 | Based on the behavior observed by the IACUC inspection team, the animals are appropriately habituated to routine husbandry and experimental procedures. *[Guide (p. 64-65)]* |  |  |  |  |  |  |
| **Food** | |  |  |  |  |  |  |
| 1815 | Each animal is fed uncontaminated, palatable, high quality food using a feed schedule and methods (that considers caloric management, delivery, and sanitation) appropriate to the species.  [*Guide (pg. 65-67)]* |  |  |  |  |  |  |
| **Water** | |  |  |  |  |  |  |
| 1816 | Each terrestrial animal has ready access to potable drinking water (quality based on periodic assessment) and the water distribution system is clean and appropriate to the species. *[Guide (p. 67-68)]* |  |  |  |  |  |  |
| 1817 | For aquatic animals, the water quality is appropriate for the species. *[Guide (p. 78-79, 85)]* |  |  |  |  |  |  |
| 1818**‡** | In aquatic systems, chlorine, chloramines, chemical, and reactive bioproducts are removed or neutralized prior to use. *[Guide ( p. 78, 86)]* |  |  |  |  |  |  |
| 1819**‡** | The biofilter of the aquatic life support system is of adequate size to process the bioload. *[Guide (* [*p 80*](http://www.nap.edu/openbook.php?record_id=12910&page=80)*)]* |  |  |  |  |  |  |
| **Bedding** | |  |  |  |  |  |  |
| 1820 | The bedding present in primary enclosures (where appropriate) is consistent with the species, facilitates good health, and meets scientific requirements.  *[Guide (p. 68-69)]* |  |  |  |  |  |  |
| **Sanitation** | |  |  |  |  |  |  |
| 1821 | Cleaning implements are designated for specific rooms or for areas at similar risk of contamination and are in good repair. [*Guide (p. 72)*] |  |  |  |  |  |  |
| 1822 | Primary enclosures (including substrates and cage components), animal holding rooms, support spaces, etc. are cleaned and disinfected on a regular schedule consistent with the use of the area and nature of contamination. *[Guide (p 70 -72)]* |  |  |  |  |  |  |
| 1823 | The effectiveness of sanitation methods/procedures are assessed and documented. [*Guide (p. 73)]* |  |  |  |  |  |  |
| **C. Animal Procurement and Transportation** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1850 | Animals being transported are appropriately restrained, secured,  and covered, to protect the health and safety of the animals and  humans (passersby as well as personnel involved in the work with the animals), to minimize stress on the animals, and to ensure animal biosecurity. *[1200.07(Appendix E-3.a (15)); Guide (p. 107-109); 9 CFR (Part 3, Standards)]* |  |  |  |  |  |  |
| 1851 | Promptly on receipt, animals are inspected by qualified personnel  and moved to housing appropriate to the protocols for which they  have been ordered. *[1200.07 (7.b(3)); Guide (p. 107-109)]* |  |  |  |  |  |  |
| 1852 | The condition of animals on arrival indicates that transportation  was consistent with USDA regulations and humane practices. *[Guide (p.107)]* |  |  |  |  |  |  |
| **D. Preventive Medicine** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1900 | Based on the observations of the facility inspection team, animals are separated by species, source, health status, intended  use (as appropriate) and after receipt, the animals are allowed a stabilization period*. [Guide (p. 109-112)]* |  |  |  |  |  |  |
| **E. Waste Disposal** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 1950 | Conventional, biological, and hazardous wastes are regularly collected, stored and disposed of through the use of safe handling and processing practices. *[Guide (p. 73-74)]* |  |  |  |  |  |  |
| 1951 | Waste receptacles are leak-proof, labeled, cleaned regularly, and have tight-fitting covers. *[Guide (p. 73)]* |  |  |  |  |  |  |
| 1952**‡** | Hazardous wastes are rendered safe before removal from facility. *[Guide (p. 73-74)]* |  |  |  |  |  |  |
| 1953 | Appropriate containers for sharps disposal are readily available in locations in which sharps are used, and are no more than 2/3 to 3/4 full. *[Guide (p. 74)]* |  |  |  |  |  |  |
| **F. Pest Control** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2000 | A humane, effective, and documented pest prevention and control program (that includes rodents and insects) is in place; there is no evidence of pests in the facility. *[Guide (p. 74)]* |  |  |  |  |  |  |
| 2001 | When it is necessary to use pesticides in animal holding areas, investigators are consulted in advance of pesticide use. *[Guide (p. 74)]* |  |  |  |  |  |  |
| **G. Medical Supplies** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2050 | Non-pharmaceutical grade compounds identified during the inspection were confirmed to be associated with an IACUC approved protocol. *[PHS (FAQ F.4); Guide (31)]* |  |  |  |  |  |  |
| **H. Emergency, After Hours, Weekend, and Holiday Care** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2100 | The review of log sheets confirm that animals are cared for by qualified personnel on weekends and holidays, as well as on regular weekdays. *[Guide ((p, 74); 9 CFR (2.33(b))]* |  |  |  |  |  |  |
| 2101**‡** | Posted contact information for veterinary staff and veterinary care entries in logs confirm that emergency veterinary care is available and provided as needed after hours, on weekends and holidays, as well as on regular weekdays. [*Guide ((p. 74;114*); *9 CFR (2.33(b))]* |  |  |  |  |  |  |
| 2102 | Telephone numbers of key personnel are readily accessible to  police and fire agencies at all times. *[Guide (p. 74)]* |  |  |  |  |  |  |
| **I. Other Observations** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2150 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### IV. Veterinary Medical Care

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A. General** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2200 | Animals are observed at least daily for signs of illness, injury or abnormal behavior by trained personnel. *[Guide (p. 112)]* |  |  |  |  |  |  |
| 2201 | Visits by part-time veterinarians are documented in a log showing  the date and time of each visit. *[1200.07 (Appendix E-2.f(9))]* |  |  |  |  |  |  |
| **B. Surgery** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2250 | The IACUC inspection team determined that the recommendations of the *Guide* are followed for non-survival surgery (the surgical site is clipped, the surgeon wears gloves, the instruments and the surrounding area are clean). *[Guide (p. 118)]* |  |  |  |  |  |  |
| 2251 | The IACUC inspection team determined that aseptic technique is used for all survival surgical procedures, and includes appropriate preparation of the animal (shaving and disinfection of the surgical site), preparation of the surgeon (scrubbing, use of sterile glove, gowns, etc.), and use of aseptic operative techniques; the aseptic technique procedures are appropriate for the species used. *[Guide (p. 118-119)]* |  |  |  |  |  |  |
| 2252 | The IACUC inspection team determined that all surgical instruments and implants used in survival surgery are sterilized by steam, gas, or approved chemicals. Note: Alcohol is not a sterilant or a high-level disinfectant. *[Guide (p. 119)]* |  |  |  |  |  |  |
| 2254 | The IACUC inspection team observed that for multiple consecutive rodent surgeries, personnel using hot bead sterilizers or liquid chemical sterilants for instrument sterilization take appropriate precautions to prevent thermal or chemical burns. *[Guide (p. 119)]* |  |  |  |  |  |  |
| 2255 | The IACUC inspection team confirmed that the operating area is cleaned and disinfected prior to major survival surgery. *[Guide (p. 117)]* |  |  |  |  |  |  |
| 2256 | The IACUC inspection team confirmed that appropriate intraoperative monitoring of anesthetic depth and physiological parameters is performed and documented by personnel. *[Guide (p. 119)]* |  |  |  |  |  |  |
| 2257 | The IACUC inspection team confirmed that postoperative monitoring and care of appropriate intensity and frequency (includes anesthesia recovery, pain management, management of physiologic needs, assessment of overall well-being, wound healing, suture removal, etc.) was provided and documented by trained personnel. *[Guide (p. 119-120)]* |  |  |  |  |  |  |
| **C. Pain, Distress, Analgesia and Anesthesia** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2300**‡** | Drug storage and control practices comply with federal regulations for human and veterinary drugs.  *[Guide (p. 115)]* |  |  |  |  |  |  |
| 2301**‡** | Analgesics and anesthetics (as well as other drugs) are used within their expiration date. *[Guide (p. 122)]* |  |  |  |  |  |  |
| 2302 | Procedures for acquiring, using and storing anesthetics and analgesics are compliant with legal and safety standards. *[Guide (p. 115; 122)]* |  |  |  |  |  |  |
| 2303**‡** | Observation and/or record review indicates that before surgery begins, personnel ensured a surgical plane of anesthesia is attained. *[Guide (p. 122)]* |  |  |  |  |  |  |
| 2304 | The IACUC inspection team determined that neuromuscular blocking agents are used in a humane and appropriate manner in accordance with the IACUC approved protocol. ( *[Guide (p. 122-123)]* |  |  |  |  |  |  |
| **D. Euthanasia** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2350 | Personnel are competent in performing euthanasia methods that are appropriate to the animal’s age and species and are consistent with AVMA Guidelines. Alternate methods of euthanasia, if used, are approved by the IACUC. *[Guide (p. 124); 9 CFR (2.31(d)(1)(xi))]* |  |  |  |  |  |  |
| 2351**‡** | Personnel confirm animal death after the euthanasia procedure. *[Guide (p.124)]* |  |  |  |  |  |  |
| **E. Other Observations** | | | | | | | |
|  | | **Not Applicable** | **Acceptable** | **Approved Departure** | **Minor Deficiency** | **Significant Deficiency** | **Could Not Evaluate** |
| 2400 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |