

## II. Semiannual Facility Inspection Checklist

### Terrestrial Animal Housing and Support Areas

Date:

Location:

	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>• <b>Location:</b> <ul style="list-style-type: none"> <li>○ animal areas separate from personnel areas (<i>Guide, p 134</i>)</li> <li>○ separation of species (<i>Guide, p 111</i>)</li> <li>○ separation by disease status (<i>Guide, p 111</i>)</li> <li>○ security and access control (<i>Guide, p 151</i>)</li> </ul> </li> <li>• <b>Construction:</b> <ul style="list-style-type: none"> <li>○ corridors (<i>Guide, p 136</i>)</li> <li>○ animal room doors (<i>Guide, p 137</i>)</li> <li>○ exterior windows (<i>Guide, p 137</i>)</li> <li>○ floors (<i>Guide, p 137</i>)</li> <li>○ drainage (<i>Guide, p 138</i>)</li> <li>○ walls and ceilings (<i>Guide, p 138</i>)</li> <li>○ heating ventilation and air conditioning (<i>Guide, p 139</i>)</li> <li>○ power and lighting (<i>Guide, p 141</i>)</li> <li>○ noise control (<i>Guide, p 142</i>)</li> <li>○ vibration control (<i>Guide, p 142</i>)</li> <li>○ environmental monitoring (<i>Guide, p 143</i>)</li> </ul> </li> <li>• <b>Room/Cage:</b> <ul style="list-style-type: none"> <li>○ temperature and humidity (<i>Guide, p 43</i>)</li> <li>○ ventilation and air quality (<i>Guide, p 45</i>)</li> <li>○ illumination (<i>Guide, p 47</i>)</li> <li>○ noise and vibration (<i>Guide, p 49</i>)</li> </ul> </li> <li>• <b>Primary Enclosure:</b> <ul style="list-style-type: none"> <li>○ space meets physiologic, behavioral<sup>xv</sup>, and social<sup>xvi</sup> needs (<i>Guide, pp 51, 55-63</i>)</li> <li>○ secure environment provided (<i>Guide, p 51</i>)</li> <li>○ durable, nontoxic materials in good repair and no risk of injury (<i>Guide, p 51</i>)</li> <li>○ flooring is safe and appropriate for species (<i>Guide, p 51</i>)</li> <li>○ adequate bedding and structures for resting, sleeping, breeding (<i>Guide, p 52</i>)</li> <li>○ objective assessments of housing and management are made (<i>Guide, p 52</i>)</li> <li>○ procedures for routine husbandry are documented (<i>Guide, p 52</i>)</li> <li>○ socially housed animals can escape or hide to avoid aggression (<i>Guide, p 55</i>)</li> <li>○ cage height provides adequate clearance (<i>Guide, p 56</i>)</li> <li>○ animals express natural postures, can turn around, access food and water, and rest away from urine and feces (<i>Guide, p 56</i>) [must]</li> <li>○ rationale<sup>xvii</sup> for <i>Guide</i>/USDA space exceptions approved by IACUC and based on performance indices (<i>Guide, p 56</i>)</li> <li>○ dogs and cats allowed to exercise and provided human interaction (<i>Guide, p 58</i>)</li> <li>○ nonhuman primates are socially housed except for scientific, veterinary or behavior reasons (<i>Guide, pp 58-59</i>)</li> <li>○ single housing of nonhuman primates is for shortest duration possible (<i>Guide, p 60</i>)</li> <li>○ opportunities for release into larger enclosures is considered for single caged nonhuman primates (<i>Guide, p 60</i>)</li> <li>○ agricultural animals are housed socially (<i>Guide, p 60</i>)</li> <li>○ food troughs and water devices for agricultural animals allow access for all animals (<i>Guide, p 60</i>)</li> </ul> </li> <li>• <b>Environmental Enrichment, Behavioral and Social Management:</b> <ul style="list-style-type: none"> <li>○ structures and resources promote species typical behavior (<i>Guide, pp 52-54</i>)</li> <li>○ novelty of enrichment is considered (<i>Guide, p 53</i>)</li> <li>○ species specific plans for housing including enrichment, behavior and activity are developed and reviewed regularly by IACUC, researchers and veterinarian</li> </ul> </li> </ul>					

(Guide, <a href="#">pp 53, 58, 60, 63</a> )					
o animal care personnel receive training to identify abnormal animal behaviors (Guide, <a href="#">p 53</a> )					
o stability of pairs or groups is monitored for incompatibility (Guide, <a href="#">p 64</a> )					
o single housing is justified for social species (Guide, <a href="#">p 64</a> )					
o single housing is limited to the minimum period necessary (Guide, <a href="#">p 64</a> )					
o additional enrichment for single housed animals is provided (Guide, <a href="#">p 64</a> )					
o single housing is reviewed regularly by IACUC and veterinarian (Guide, <a href="#">p 64</a> )					
o habituation to routine procedures is part of enrichment program (Guide, <a href="#">p 64</a> )					
• <b>Sheltered or Outdoor Housing:</b> (e.g., barns, corrals, pastures, islands)					
o weather protection and opportunity for retreat (Guide, <a href="#">p 54</a> ) <b>[must]</b>					
o appropriate size (Guide, <a href="#">p 54</a> )					
o ventilation and sanitation of shelter (no waste/moisture build-up) (Guide, <a href="#">p 54</a> )					
o animal acclimation (Guide, <a href="#">p 55</a> )					
o social compatibility (Guide, <a href="#">p 55</a> )					
o roundup/restraint procedures (Guide, <a href="#">p 55</a> )					
o appropriate security (Guide, <a href="#">p 55</a> )					
• <b>Naturalistic Environments:</b>					
o animals added /removed with consideration of effect on group (Guide, <a href="#">p 55</a> )					
o adequate food, fresh water, and shelter ensured (Guide, <a href="#">p 55</a> )					
• <b>Food:</b>					
o feeding schedule and procedures including caloric intake management (Guide, <a href="#">pp 65-67</a> )					
o contamination prevention (Guide, <a href="#">p 65</a> )					
o vendor quality control (Guide, <a href="#">p 66</a> )					
o storage in sealed containers (Guide, <a href="#">p 66</a> )					
o expiration date labeling (Guide, <a href="#">p 66</a> )					
o vermin control (Guide, <a href="#">p 66</a> )					
o rotation of stocks (Guide, <a href="#">p 66</a> )					
• <b>Water:</b>					
o ad libitum unless justified (Guide, <a href="#">pp 67-68</a> )					
o QC procedures (Guide, <a href="#">pp 67-68</a> )					
• <b>Bedding and Nesting Materials:</b>					
o species appropriate (Guide, <a href="#">pp 68-69</a> )					
o keeps animals dry (Guide, <a href="#">pp 68-69</a> )					
o QC procedures (Guide, <a href="#">pp 68-69</a> )					
o minimizes scientific variables (Guide, <a href="#">pp 68-69</a> )					
• <b>Sanitation:</b>					
o frequency of bedding/substrate change (Guide, <a href="#">p 70</a> )					
o cleaning and disinfection of microenvironment (Guide, <a href="#">pp 70-71</a> )					
o cleaning and disinfection of macroenvironment (Guide, <a href="#">p 72</a> )					
o assessing effectiveness (Guide, <a href="#">p 73</a> )					
• <b>Waste Disposal:</b>					
o procedures for collection (Guide, <a href="#">pp 73-74</a> )					
o procedures for storage and disposal (Guide, <a href="#">pp 73-74</a> )					
o hazardous wastes are rendered safe before removal from facility (Guide, <a href="#">pp 73-74</a> ) <b>[must]</b>					
o animal carcasses (Guide, <a href="#">pp 73-74</a> )					
• <b>Pest Control:</b>					
o regularly scheduled (Guide, <a href="#">p 74</a> )					
o documented program including control of rodent pests and insecticide use (Guide, <a href="#">p 74</a> )					
• <b>Emergency, Weekend, and Holiday Animal Care:</b>					
o care provided by qualified personnel every day (Guide, <a href="#">p 74</a> )					
o provision for accessible contact information (Guide, <a href="#">p 74</a> )					
o monitoring of backup systems (Guide, <a href="#">p 143</a> )					
o veterinary care available after hours, weekends, and holidays (Guide, <a href="#">pp 74, 114</a> ) <b>[must]</b>					
o a disaster plan that takes into account both personnel and animals (Guide, <a href="#">p 75</a> )					

<ul style="list-style-type: none"> <li>• <b>Identification:</b> <ul style="list-style-type: none"> <li>○ cage/rack cards contain required information (<i>Guide, p 75</i>)</li> <li>○ genotype information included and standardized nomenclature used when applicable (<i>Guide, p 75</i>)</li> </ul> </li> </ul>					
<ul style="list-style-type: none"> <li>• <b>Recordkeeping:</b> <ul style="list-style-type: none"> <li>○ clinical records accessible and contain appropriate information (<i>Guide, pp 75-76</i>)</li> <li>○ records are provided when animals are transferred between institutions (<i>Guide, p 75</i>)</li> </ul> </li> </ul>					
<ul style="list-style-type: none"> <li>• <b>Breeding Genetics and Nomenclature:</b> <ul style="list-style-type: none"> <li>○ appropriate genetic records, management and monitoring procedures (<i>Guide, p 76</i>)</li> <li>○ phenotypes that affect wellbeing are reported to IACUC and effectively managed (<i>Guide, p 77</i>)</li> </ul> </li> </ul>					
<ul style="list-style-type: none"> <li>• <b>Storage:</b> <ul style="list-style-type: none"> <li>○ adequate space for equipment, supplies, food, bedding and refuse (<i>Guide, p 141</i>)</li> <li>○ bedding in vermin-free area and protected from contamination(<i>Guide, p 141</i>)</li> <li>○ food in vermin-free, temperature and humidity controlled area and protected from contamination (<i>Guide, p 141</i>)</li> <li>○ refuse storage is separate (<i>Guide, p 141</i>)</li> <li>○ carcass and animal tissue storage is separate, refrigerated below 7°C and cleanable (<i>Guide, p 141</i>)</li> </ul> </li> </ul>					
<ul style="list-style-type: none"> <li>• <b>Personnel:</b> <ul style="list-style-type: none"> <li>○ adequate space for locker rooms, administration and training (<i>Guide, p 135</i>)</li> </ul> </li> </ul>					

- \* **A** = acceptable  
**M** = minor deficiency  
**S** = significant deficiency (is or may be a threat to animal health or safety)  
**C** = change in program (PHS Policy [IV.A.1.a.-i.](#)) (include in semiannual report to IO and in annual report to OLAW)  
**NA** = not applicable

**NOTES:**

## Aquatic Animal Housing and Support Areas NEW

Date:

Location:

	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>• <b>Location:</b> <ul style="list-style-type: none"> <li>○ animal areas separate from personnel areas (<i>Guide, p 134</i>)</li> <li>○ separation of species (<i>Guide, p 111</i>)</li> <li>○ separation by disease status (<i>Guide, p 111</i>)</li> <li>○ security and access control (<i>Guide, p 151</i>)</li> </ul> </li> <li>• <b>Construction:</b> <ul style="list-style-type: none"> <li>○ corridors (<i>Guide, p 136</i>)</li> <li>○ animal room doors (<i>Guide, pp 137, 150</i>)</li> <li>○ exterior windows (<i>Guide, p 137</i>)</li> <li>○ floors (<i>Guide, pp 137, 150</i>)</li> <li>○ drainage (<i>Guide, pp 138, 150</i>)</li> <li>○ walls and ceilings (<i>Guide, pp 138, 150</i>)</li> <li>○ heating ventilation and air conditioning (<i>Guide, pp 139, 150-151</i>)</li> <li>○ power and lighting (<i>Guide, pp 141, 150</i>)</li> <li>○ noise control (<i>Guide, p 142</i>)</li> <li>○ vibration control (<i>Guide, p 142</i>)</li> <li>○ environmental monitoring (<i>Guide, p 143</i>)</li> </ul> </li> <li>• <b>Water Quality:</b> <ul style="list-style-type: none"> <li>○ standards for acceptable quality are established (<i>Guide, p 78</i>)</li> <li>○ chlorine, chloramines, chemical, and reactive bioproducts are removed or neutralized prior to use in aquatic systems (<i>Guide, pp 78, 86</i>) <span style="background-color: cyan;">[must]</span></li> </ul> </li> <li>• <b>Life Support System:</b> <ul style="list-style-type: none"> <li>○ water source is based on appropriate controls and research requirements (<i>Guide, p 79</i>)</li> <li>○ biofilter is of sufficient size to process bioload (<i>Guide, p 80</i>) <span style="background-color: cyan;">[must]</span></li> </ul> </li> <li>• <b>Temperature, Humidity and Ventilation/Illumination/Noise and Vibration:</b> <ul style="list-style-type: none"> <li>○ temperature and humidity (<i>Guide, pp 43, 80-81</i>)</li> <li>○ ventilation and air quality (<i>Guide, pp 45, 81</i>)</li> <li>○ illumination (<i>Guide, pp 47, 81</i>)</li> <li>○ noise and vibration (<i>Guide, pp 49, 81</i>)</li> </ul> </li> <li>• <b>Primary Enclosure:</b> <ul style="list-style-type: none"> <li>○ allows for normal physiological and behavioral needs (<i>Guide, p 82</i>)</li> <li>○ allows social interaction for social species (<i>Guide, p 82</i>)</li> <li>○ provides a balanced, stable environment (<i>Guide, p 82</i>)</li> <li>○ provides appropriate water quality and monitoring (<i>Guide, p 82</i>)</li> <li>○ allows access to food and waste removal (<i>Guide, p 82</i>)</li> <li>○ restricts escape and entrapment (<i>Guide, p 82</i>)</li> <li>○ allows undisturbed observation (<i>Guide, p 82</i>)</li> <li>○ constructed of nontoxic materials (<i>Guide, p 82</i>)</li> <li>○ prevents electrical hazards (<i>Guide, p 82</i>)</li> <li>○ space needs of species are evaluated by IACUC during program evaluations and facility inspections (<i>Guide, p 83</i>)</li> </ul> </li> <li>• <b>Environmental Enrichment, Social Housing, Behavioral and Social Management:</b> <ul style="list-style-type: none"> <li>○ enrichment elicits appropriate behaviors and is safe (<i>Guide, p 83</i>)</li> <li>○ semi-aquatic reptiles are provided terrestrial areas (<i>Guide, p 83</i>)</li> <li>○ handling is kept to a minimum and appropriate techniques are in place at facility or protocol level (<i>Guide, p 84</i>)</li> <li>○ nets are cleaned, disinfected and managed to avoid contamination of systems (<i>Guide, p 84</i>)</li> </ul> </li> <li>• <b>Food:</b> <ul style="list-style-type: none"> <li>○ storage to prevent contamination, preserve nutrients and prevent pests (<i>Guide, p</i></li> </ul> </li> </ul>					

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

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**NA** = not applicable

**NOTES:**

## Cagewash

Date:

Location:

	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>• <b>Construction and Operation:</b> <ul style="list-style-type: none"> <li>o dedicated central area for sanitizing cages and equipment is provided (<i>Guide, p 143</i>)</li> <li>o cage-washing equipment meets need (<i>Guide, p 143</i>)</li> <li>o doors, windows, floors, drainage, walls, ceilings (<i>Guide, pp 136-138</i>)</li> <li>o convenient to animal areas/waste disposal (<i>Guide, p 143</i>)</li> <li>o ease of access (including door size) facilitates use (<i>Guide, p 143</i>)</li> <li>o sufficient space for staging and maneuvering (<i>Guide, p 143</i>)</li> <li>o safety precautions/clothing/equipment used for waste disposal/prewash/acid wash (<i>Guide, p 143</i>)</li> <li>o traffic flow clean to dirty with no contamination of clean equipment by dirty equipment and appropriate air pressurization (<i>Guide, p 143</i>)</li> <li>o insulation and/or sound attenuation present as needed (<i>Guide, p 143</i>)</li> <li>o utilities are appropriate (<i>Guide, p 143</i>)</li> <li>o ventilation meets heat and humidity load (<i>Guide, p 143</i>)</li> <li>o safety features (e.g., SOPs, warning signs, eyewash stations) are in use (<i>Guide, p 143</i>)</li> <li>o functioning safety devices to prevent entrapment in washer/sterilizers (<i>Guide, p 143</i>)</li> <li>o cage wash temperatures are monitored and records are available (<i>Guide, p 73</i>)</li> <li>o appropriate clean cage storage (<i>Guide, p 141</i>)</li> </ul> </li> </ul>					

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**NOTES:**

## Special Facilities: Aseptic Surgery

Date:

Location:

	A*	M	S	C	NA
<ul style="list-style-type: none"> <li><b>General Considerations:</b> <ul style="list-style-type: none"> <li>location minimizes traffic/contamination (<i>Guide, p 144</i>)</li> <li>functional components (surgical support, animal preparation, surgeon scrub, operating room, postoperative recovery) are designed and separated (physically or otherwise) (<i>Guide, p 144</i>)</li> <li>appropriate drug storage, control, expiration date monitoring (<i>Guide, pp 115, 122</i>)</li> <li>safe sharps disposal system (<i>Guide, p 74</i>)</li> <li>adequate records of anesthesia and perioperative care (<i>Guide, p 122</i>)</li> <li>aseptic procedures in use for all survival surgery (<i>Guide, pp 118-119</i>)</li> </ul> </li> <li><b>Operating Room:</b> <ul style="list-style-type: none"> <li>effective contamination control procedures (<i>Guide, p 144</i>)</li> <li>effective cleaning procedures/dedicated tools (<i>Guide, p 145</i>)</li> <li>interior surfaces smooth and impervious to moisture (<i>Guide, p 145</i>)</li> <li>HVAC system meets <i>Guide</i> requirements (<i>Guide, p 145</i>)</li> <li>lighting safe and appropriate (<i>Guide, p 145</i>)</li> <li>outlets safe and appropriate (<i>Guide, p 145</i>)</li> <li>scavenging of anesthetic gases implemented (<i>Guide, p 145</i>)</li> </ul> </li> <li><b>Surgical Support:</b> <ul style="list-style-type: none"> <li>facility for washing, sterilizing, storing instruments and supplies (<i>Guide, p 145</i>)</li> <li>autoclave monitoring procedures are implemented (<i>Guide, pp 119, 145</i>)</li> <li>storage of autoclaved materials maintains sterility (<i>Guide, p 145</i>)</li> <li>cold sterilization procedures are appropriate (<i>Guide, p 119</i>)</li> </ul> </li> <li><b>Animal Preparation:</b> contains large sink to facilitate cleaning of animal and operative site (<i>Guide, p 145</i>)</li> <li><b>Surgeon Scrub:</b> outside operating room, non-hand-operated sink (<i>Guide, p 145</i>)</li> <li><b>Postoperative Recovery:</b> allows adequate observation, easily cleaned, supports physiologic functions, minimizes risk of injury (<i>Guide, p 145</i>)</li> <li><b>Dressing Area:</b> place for personnel to change (<i>Guide, p 145</i>)</li> </ul>					

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NOTES:

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

**Date:**

**Location:**

	A*	M	S	C	NA
<ul style="list-style-type: none"> <li><b>General Considerations:</b> <ul style="list-style-type: none"> <li>labs used to house animals only when scientifically required and limited to minimum period necessary (<i>Guide, p 134</i>)</li> <li>drug storage, control, and expiration dates (<i>Guide, pp 115, 122</i>)</li> <li>sharps disposal (<i>Guide, p 74</i>)</li> <li>anesthetic monitoring (<i>Guide, p 120</i>)</li> <li>scavenging of anesthetic gases (<i>Guide, p 21</i>)</li> <li>safety features (e.g., SOPs, safety signs, eyewash stations, secure gas cylinders) are in place (<i>Guide, p 19</i>)</li> <li>carcass disposal (<i>Guide, pp 73-74</i>)</li> </ul> </li> <li><b>Additional Concerns for Survival Surgery:</b> (rodent and minor procedures only)                             <ul style="list-style-type: none"> <li>rodent survival surgery clean and uncluttered, not used for anything else during surgery (<i>Guide, p 144</i>)</li> <li>records of peri-operative care (<i>Guide, p 120</i>)</li> <li>aseptic procedures (<i>Guide, pp 118-119</i>)</li> <li>autoclave monitoring procedures (<i>Guide, pp 119, 145</i>)</li> <li>storage of autoclaved materials (<i>Guide, p 145</i>)</li> <li>cold sterilization procedures are appropriate (<i>Guide, p 119</i>)</li> </ul> </li> <li><b>Imaging/Whole Body Irradiation:</b> <b>NEW</b> <ul style="list-style-type: none"> <li>location of resource limits contamination risk (<i>Guide, p 147</i>)</li> <li>appropriate transportation methods are in place (<i>Guide, p 147</i>)</li> <li>gas anesthesia provision, scavenging and monitoring are appropriate (<i>Guide, p 147</i>)</li> <li>appropriate sensors and ventilation are provided for cryogen gases (<i>Guide, p 147</i>) <b>[must]</b></li> <li>imaging console is located away from radiation source (<i>Guide, p 147</i>)</li> </ul> </li> <li><b>Hazardous Agent Containment:</b> <b>NEW</b> <ul style="list-style-type: none"> <li>facility adheres to APHIS, USDA and CDC Select Agent Regulations and other federal, state and local regulations including security measures (<i>Guide, p 148</i>) <b>[must]</b></li> </ul> </li> <li><b>Behavioral Studies:</b> <b>NEW</b> <ul style="list-style-type: none"> <li>facility minimizes airborne transmission of noise and ground-borne transmission of vibration (<i>Guide, p 149</i>)</li> <li>floor coverings reduce sound transmission (<i>Guide, p 149</i>)</li> <li>testing equipment allows for surface disinfection (<i>Guide, p 150</i>)</li> <li>components that cannot be cleaned are not in ready contact with animals and kept covered when not in use (<i>Guide, p 150</i>)</li> <li>housing areas are contiguous with testing areas when appropriate (<i>Guide, p 150</i>)</li> </ul> </li> </ul>					

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