

**Attachment E**  
**APHIS FORM 7023**  
**Explanation of Procedures Producing Pain or Distress**  
**Column E (White-tailed Deer)**

**Registration #:** 74-R-0146

**Number of Animals Used in Study:** 25

**Species:** white-tailed deer

**Procedure Producing Pain or Stress:** Gradual fill method of Carbon Dioxide (CO<sub>2</sub>) as an euthanasia procedure in white-tailed deer.

**Justification:** Approved euthanasia procedures are often difficult on staff and stressful on research subjects. CO<sub>2</sub> has proven to be effective and humane in feral swine euthanasia and approved by the American Veterinary Medical Association for some laboratory animals and livestock species. Use of analgesic and tranquilizing drugs would compromise evaluations of the procedure and were not used in the study. Standard operating procedures were used to load subjects into CO<sub>2</sub> chamber and natural behavior of subjects was required for adequate evaluation and determination of humanness.

**Signature of Institutional Official**

(b) (6), (b) (7)(C)

**Date:** 12-4-15

DEC - 7 2015

**Attachment E**  
**APHIS FORM 7023**  
**Explanation of Procedures Producing Pain or Distress**  
**Column E (Feral Pigs)**

**Registration #:** 74-R-0146

**Number of Animals Used in Study:** 237

**Species:** feral pigs

**Procedure Producing Pain or Stress:** Intoxication due to consumption of candidate pesticides with sodium nitrite as the active ingredient

**Justification:** Anesthetic, analgesic, and tranquilizing drugs were not used on specimens listed in column E during the reporting period. All experiments were toxicological in nature and use of such drugs would compromise key components of the investigation which were assessment of palatability and mortality rates of a candidate pesticide. Natural feeding behaviors of the subjects used in testing are necessary for determination of the suitability of the active ingredient and bait components as a pesticide.

**Signature of Institutional Official**

**Date:** 12.4.15

(b) (6), (b) (7)(C)

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