

**ATTACHMENT 1: APHIS Form 7023 Site Information for FY 2015**

NOV 18 2015

Registration Number: 58-R-0007

Customer ID Number: 872

**Category E Explanation****1. Number of animals used Category E in this study:**

98

**2. Explain the procedure producing pain and/or distress. What is the explanation for why anesthetics, analgesics and tranquilizers could not be used?**

This study involves establishing a dose response curve and a time course of increased acetylcholinesterase expression following injection of (b) (4) in mice. The experiments are designed to mimic precisely the conditions of (b) (4) exposure that humans have and will experience. The investigator is developing a novel therapeutic procedure for rescuing people from (b) (4) exposure and it is essential to demonstrate that the (b) (4) can both protect and rescue mammals from (b) (4) exposure. The (b) (4) would have a different effect on an anesthetized animal and, more importantly, it would not be possible to visually observe the endpoint. Unfortunately there are no pre-death endpoints that can reliably predict death from (b) (4)