

0180-00A-AN

FORM APPROVED  
OMB NO 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address as registered with USDA include Zip Code)  
University of Michigan  
Unit for Lab Animal Medicine  
1301 Catherine Street  
Ann Arbor, MI 48109-0614  
Status: Active

[illegible]

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthesia, analgesia, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to reverse the effects of other aspects of animal care and use

DATE SIGNED

11/24/93

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USDA Registration Number 34-R-001

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## USDA Annual Report of Research Facility

November 30, 1999

### Explanation for Annual Animal Use in Category E

Eighteen monkeys were used to study the analgesic effects of drugs with a warm water tail-withdrawal procedure. These monkeys have their tails immersed in 40-50°C water. The tail is not constrained and the monkeys can remove their tails without restriction. A variety of opioid and non-opioid analgesics are being studied with this procedure. Administration of analgesics would alter normal responses and interfere with the results of the study.

### IACUC-Approved Exceptions to the Regulations or Standards

Four Group 3 monkeys were housed in innovative enclosures measuring 24" x 24" x 28"h, marginally short of the floorspace and height requirements specified by USDA regulations. These monkeys are involved in a long-term behavioral study in which they are periodically videotaped in their enclosures. Altering the configuration of the enclosures could confound the experimental results. The monkeys are mid-range Group 3 primates. The veterinary staff has observed the monkeys in the enclosures and determined that they are free to make postural adjustments and express species-typical behavior.

Fifteen monkeys were provided food without using a food receptacle. Rather, the monkeys were fed by handing the food biscuits directly to each animal, or placing the biscuits on the floors of the cages. These monkeys had a history of removing the feeders from their cages and tossing them to the floor, thereby preventing their access to food remaining in the feeders until the subsequent feeding. (Note that whether monkeys removed biscuits from feeders themselves, or were handed biscuits, the monkeys usually placed the biscuits on the floor of their cages for some period of time before consuming them.) The practice of hand or floor feeding of these monkeys was reviewed and approved by the veterinary staff.