



312 Finnup Drive • Garden City, KS 67846-0499

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The mission of the zoo is to instill appreciation and encourage stewardship of the Earth's natural treasures through the exhibition, conservation and interpretation of wildlife.

The LRZ is accredited by the Association of Zoos and Aquariums and is dedicated to recreation, conservation, education, and scientific studies.

Visit the AZA website at www.aza.org

ASSOCIATION
OF ZOOS &
AQUARIUMS

August 15, 2006

AZA Accreditation Commission
8403 Colesville Road, Suite 710
Silver Spring, MD 20910-3314

Reference: Written Response to List of Concerns

Major Concerns:

1. Maintenance Foreman and Registrar salaries should be evaluated and adjusted based on expanded job responsibilities.

Response: Both position job descriptions were reviewed and rewritten by the Director with the input of senior staff and the employees involved. Updates were approved by the City's Human Resources Director and the City Manager. The Secretary position received an increase in grade and salary and was re-titled Secretary/Registrar, while the Maintenance Foreman position received an increase in salary as suggested by the Zoo Director.

2. Additional Lighting needed for South American Primate holding building.

Response: The current four-foot, two-bulb fluorescent fixture was removed from the service area, and replaced with an eight-foot, two bulb fluorescent fixture. In addition, a "two-bulb" flood light fixture was installed at each end of the service area with the light illuminating all corners of the animal holding areas. As a result, wattage in this holding building has quadrupled.

3. Having been told replacement of South American barn is budgeted for 2007, we strongly encourage replacement of this building.

Response: The South American barn replacement was proposed for a 2007 Zoo Department project in the City's Capital Improvement Project List. Since the inspection team's visit, the City Commission has reviewed and approved the 2007 budget, including funds to construct a new barn in this location. Planning for this improvement will commence in the fall of 2006 with construction planned for 2007.

4. Should provide hand washing or hand sanitation for Asian Farm animal contact area.

Response: A sanitizing gel dispenser has been installed adjacent to the Asian Farm exhibit.



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5. Should supply Naloxone in case of human exposure to Carfentanil.

Response: Arrangements have been made to procure and keep an adequate supply (Quantity 10 of 1 mg/ml, 10 ml multi-dose vials) of Naloxone on hand for emergency treatment of human exposure to Carfentanil. In addition, our Controlled Substance Policy has been updated to indicate that this drug is now kept on hand. Procedures involving Carfentanil currently include notification of local emergency services prior to use of this drug, and to have emergency personnel from either St. Catherine's Hospital or Finney County EMS on hand during the procedures that involve Carfentanil. A letter regarding our arrangement with the Saint Catherine Hospital Critical Care Director regarding the use of Carfentanil and Naloxone is attached. Finney County EMS Director Bob Pruitt has also updated training for all EMS staff regarding Carfentanil and Naloxone, and has supplied them with additional written information provided by zoo staff regarding same.

6. Written document should be produced for immobilization protocol which could be used in the absence of Dr. Sells.

Response: This document did exist but the inspection team inquired about it to members of the staff who were not aware of its existence and location. This oversight has been corrected, and the original document has been updated by the veterinarian and posted in the clinic and in the Emergency Immobilization Kit. (attached as Excel document *Emer. Immobilizations*) This single Excel document **includes both the original and current document** on two separate sheets labeled with dates to indicate the current and original document.

Lesser Concerns:

1. Hospital holding cages need to be added.

Response: Maintenance staff has added two new stainless steel holding cages inside the clinic (in addition to the existing stainless cage), and a framework for four outdoor roofed holding pens (measuring approximately 10'W x 12'D x 7'H) directly outside the clinic. These outdoor holding stalls will shortly be outfitted with chain link fencing, shade cloth, and screening material for privacy to accommodate larger animals, primarily hoofed animals or large birds that are off exhibit for medical care.

2. Should have warning sign to stay away from fence at zebra exhibit.

Response: Three signs were added along the zebra exhibit fence cautioning the public to stay behind the public fence. These signs were of the same design that the inspection team liked at our camel exhibit.



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3. Supplemental heat should be provided for Dromedary Camel shelter.

Response: After deliberation with staff and experts as to the best way to heat this structurally sound barn which is relatively open to the south, we have begun the process to install in-floor heating in this barn. We feel it will be more effective for the situation, and will provide the greatest comfort for the animals in the most economical manner. This project is still underway. A floor plan for the in-floor plumbing has been developed, and cost estimates completed. Materials are currently being acquired, and installation by our maintenance staff will begin shortly. As this barn does not currently have electrical service, the City's Electric Department is working with us to run service to the barn. This will involve boring under two sidewalks and a public road to access the nearest source of power. They have us on their schedule for a September installation, at which time the plumbing and cement work should be completed. Electricity can be provided to the hot water heaters in plenty of time to have heat in this barn operational by winter.

4. Live feed animal room lacks proper ventilation.

Response: A hole was cut in the wall of the prefab concrete building and an exhaust fan installed. This is in addition to the existing fan in the room's supplementary heater/AC unit.

Conclusion: This document was prepared by Zoo Director Kathy Sexson, with input from appropriate staff including: General Curator Kristi Newland, Maintenance Foreman Hiram Thoman, and Secretary/Registrar Stephanie Fontenot.

Enclosures: *Excel Document* – Emergency immobilizations (list of immobilization drugs/doses for emergency use by non-staff veterinarian)
Scanned Document – Naloxone MOU letter from St. Catherine Hospital Critical Care Director.
Word document – Updated Controlled Substance Policy including addition of Naloxone to on-site drugs for emergency Carfentanil exposure.
Word document – Labeled before and after photos of items of concern. (in mailed document only)
Digital folder - labeled before/after digital photos (same as above) (sent with email copy, and on disk with mailed copy of response.)

Respectfully Submitted,

A handwritten signature in cursive script that reads "Kathy Sexson".

Kathy Sexson
Director
Lee Richardson Zoo

EMERGENCY IMMOBILIZATIONS

ANIMAL	PREFERRED DRUG	ALTERNATE DRUG	REVERSAL/COMMENTS
MEGAVERTEBRATES			
Elephant	VET ONLY TO HANDLE DRUGS	2.8cc Carfentanil (8.4mg)	6.44 cc Naltrexone (320mg)
Rhinoceros		0.4cc Etorphine (4mg)	8cc Naltrexone (400 mg)
Giraffe	8 mg Carfentanil + 1 ml Xylazine + .7 ml Atropine		800 mg Naltrexone + 4.5 ml Yohimbine
LARGE UNGULATES			
Gaur	6 ml xylazine		20 cc Yohimbine
Camels	6 ml xylazine		
Bison	1.0 ml/100# rompun		
Elk	(700#=7ml)		
MEDIUM UNGULATES			
Pere David Deer	2 ml ketamine + .6 ml demosedan	6.81 ml telazol + 4.5 rompun	
Alpaca	.6 ml ketamine + .3ml Demosedan	1.5 ml rompun	
Tapir	8.5 ml Telazol		
Zebra	3 ml Xylazine		3 ml Yohimbine
Addax			

HERBIVORES

EMERGENCY IMMOBILIZATIONS

ANIMAL	PREFERRED DRUG	ALTERNATE DRUG	REVERSAL/COMMENTS
LARGE FELIDS			
African Lion	SHOOT TO KILL	6 ml Concentrated Telazol	
Tiger			
Jaguar		3 ml Ketamine + .75 ml Demosedan	
MEDIUM FELIDS, SMALL CANIDS			
Snow Leopard	2.5 ml Ketamine + .5ml Dormitor		3 ml Telazol
Mountain Lion	1.5 ml Ketamine + 0.6 ml Demosedan		600 mg Telazol
SMALL FELIDS, SMALL CANIDS, OTHER SMALL CARNIVORES			
Bobcat	.5 ml KRT	3 ml Telazol	
Foxes	Corner and Net	.3 ml Telazol by hand	
Red Panda		.3 ml Telazol by hand	
Otter		.4 ml Telazol	
URSIDS			
Sun Bear	2 ml Concentrated Telazol	2.7 ml ketamine + 03 ml medatomadine	
Asiatic Black Bear		5.4 ml ketamine + .06 medatomadine	

CARNIVORES

St. Catherine Hospital

Date: 08-01-06

Re: Carfentanyl (Wildnil)

To Who It May Concern,

St. Catherine Hospital is aware of Lee Richardson Zoo use of Carfentanyl for sedation of large animals. SCH is equipped to treat patients that have received an exposure to Carfentanyl. SCH stocks the antidote Naloxone (Narcan) and currently stocks greater than 100 vials of Narcan 1mg. Finney EMS also carry's Narcan on all EMS vehicles and is equipped to treat these exposures during their 5 minute ETA transfer to SCH Emergency Department.

St. Catherine Hospital Emergency Department has in-serviced their staff to the treatment and side effects of this opioid analgesic and is aware that Lee Richardson Zoo is currently using this medication.

If I can be of any further assistance please contact me at St. Catherine Hospital 620-272-2294.

Sincerely,



Ashley Rich, RN
Critical Care Director



Lee Richardson Zoo – Policies and Protocols Notebook

CONTROLLED SUBSTANCE POLICY

OBJECTIVE

The objective of the Lee Richardson Zoo Controlled Substances Policy is to ensure compliance with State and Federal regulations governing the use of Drug Enforcement Administration (DEA) controlled substances.

POLICY

All Lee Richardson Zoo personnel having access to DEA controlled substances will comply with state and federal regulations concerning the acquisition, storage, use and disposal of those substances.

RESPONSIBILITIES

The Consulting Veterinarian or Staff Veterinarian for Lee Richardson Zoo will be responsible for registering with the DEA and for assuring compliance with applicable state and federal regulations.

EMPLOYEE SCREENING PROCEDURE

Each registrant is responsible for managing the controlled substances in accordance with the requirements of the regulations including inventory, record keeping and security provisions.

Select Lee Richardson Zoo employees may engage in approved activities under the guidance of the veterinarian. The veterinarian is required to screen those employees prior to authorization. As part of the screening process, the attached questionnaire must be completed for each non-practitioner having access to DEA controlled substances:

USE OF CONTROLLED SUBSTANCES IN ABSENCE OF LICENSED VETERINARIAN

In the absence of the zoo's licensed veterinarian, zoo staff will follow the following protocols in relation to use of controlled drugs.

Carfentanil, as well as ALL other controlled substances, are to be administered **ONLY** in the presence of a Licensed Veterinarian. **NO EXCEPTIONS.** (For emergency protocol regarding human exposure to Carfentanil, see policy included at end of this section.)

In the event of a medical animal emergency that occurs when the zoo's licensed veterinarian cannot be present, zoo staff will make every attempt to engage the services of another veterinarian in the local area for their assistance. In the event of an emergency involving a dangerous animal escape, where the escaped animal poses a danger to the public, staff, or other animals in the collection, and where the zoo's or another licensed veterinarian cannot be present to administer anesthesia, the weapons team will be cleared to use lethal force to dispatch the animal.

RECORD KEEPING

To ensure accountability, a complete and accurate continuing record (e.g., real-time inventory) is required for each substance and must be maintained on a current basis. Continuing records should be kept for 2 years after the substance is spent. It should include:

- Date of receipt
- Name of the substance
- Each finished form of the substance (e.g., 10 mg tablet or 10 mg/ml)
- Number of units or volume of each finished form in each container.
- Number of containers of each finished form (e.g., six 3-ml vials).
- Date of dispensing, units or volume dispensed, units or volume remaining in container, name or initials of the individual who dispensed or administered the substance.
- Name or initials of another person verifying dispensed information.
- If substance is disposed of, include date, manner of disposal, and quantity of substance disposed. Disposal records to be kept for a minimum of two years.

CONTINUING RECORD

Initial and a minimal of biennial inventories are required for Schedule I and II substances. An initial inventory shall include:

- Name of each substance
- Each finished form of the substance (e.g., 10 mg tablet or 10 mg concentration/ml)
- Number of units or volume of each finished form in each container.
- Number of containers of each finished form (e.g., six 3-ml vials).

Damaged, defective, expired, or impure substances awaiting disposal must also be inventoried including name, total quantity, and the reason why the substance is being maintained.

After the initial inventory, a new inventory must be taken at least every two years. The biennial inventory date must be within two years of the last inventory. Inventories and records for scheduled substances are required to be maintained at the registered location. Biennial inventories will be verified by a minimum of one authorized member of personnel or one member of management.

STORAGE

Access to the building that stores controlled substances shall be accessible only to an absolute minimum number of specifically authorized employees. When it is necessary for non-authorized personnel, guests, or visitors to be present in or pass through controlled substances storage areas, they must be accompanied or observed by authorized personnel.

Schedule II drugs (Carfentanil) shall be stored in a Class 5 safe accessible only to authorized personnel (Vet, Curator, Director, Vet Tech), who have been issued the combination to the safe. In addition, the safe's combination shall be changed upon termination of an employee having knowledge of the combination. Carfentanil shall be removed from the safe only under the supervision of the licensed veterinarian.

Schedule III-V controlled substances shall be stored in a narcotics safe that is bolted to or mounted in the wall. Schedule III-V substances shall be removed and used only by, or under the supervision of the licensed veterinarian.

All personnel that have access to controlled substances (Schedule II and/or Schedule III-V substances) must have completed the Lee Richardson Zoo questionnaire regarding controlled substances. This form will be retained on file in the main office. The Lee Richardson Zoo will retain a written record of acknowledgement of receipt of a key providing access to the Schedule III-V controlled substances narcotics safe. These records of receipt will be maintained for a minimum of two years.

SECURITY

LRZ shall provide effective controls to guard against the theft or diversion of controlled substances. Substances are required to be stored in securely locked, substantially constructed cabinets or safes.

Registrants must notify the appropriate DEA field office of theft or significant loss of any controlled substance. The registrant must then promptly complete and submit the DEA Form 106 regarding such losses or thefts. Thefts must be reported whether or not the controlled substances are subsequently recovered and/or the responsible parties are identified and action taken against them.



Carfentanil Exposure Emergency Procedures

Introduction

Carfentanil is a synthetic opiate with a clinical potency 10,000 times that of morphine. Carfentanil has a morphine-like analgesic mode of action and produces a rapid immobilization following intramuscular injection. Carfentanil is to be used only by a Licensed Veterinarian for the immobilization of wild or exotic animals.

Use of Carfentanil at Lee Richardson Zoo

Carfentanil will only be used when deemed necessary by the licensed staff veterinarian. The staff veterinarian will be responsible for drawing up doses, loading darts, and overseeing the darting procedure, as well as recovery, cleaning, and/or disposal of darts and syringes.

Lee Richardson Zoo will maintain a sufficient supply of Naloxone to treat a human for exposure to Carfentanil. (Naloxone 1 mg/ml, 10 ml multi-dose vials x 10).

Prior to use of Carfentanil, emergency medical personnel will be notified and requested to be on hand to deal with a human exposure, should it occur. Senior staff at Lee Richardson Zoo will ensure that emergency medical personnel, as well as our own staff, are conversant with the properties of Carfentanil and Naloxone.

Zoo staff will maintain a response kit to be transported with Carfentanil any time it is to be used. This kit contains an Ambubag, Naloxone, a bucket for water, gloves and face shield. Long sleeved shirt and long pants or other protective clothing should be worn by staff involved in procedures involving Carfentanil. Onsite, prior to the use of Carfentanil, a five gallon bucket will be filled with water to use for rapidly diluting a skin splash exposure.

This protocol as well as information sheets on Carfentanil and Naloxone will be kept with the Carfentanil.

Emergency Procedures

In the event of an accidental human exposure to Carfentanil, zoo staff shall assist Emergency Medical Services (who will be onsite for all Carfentanil procedures) as directed. (Transport time to St. Catherine Hospital from the zoo is five minutes or less.)

QUESTIONNAIRE FOR EMPLOYEES WHO WILL HAVE ACCESS TO SUBSTANCES REGULATED BY
THE DRUG ENFORCMENT AGENCY OF THE UNITED STATES OF AMERICA

LEE RICHARDSON ZOO

The Drug Enforcement Agency requires that any person who will have access to controlled substances as a result of his or her status as an employee or agent of the Lee Richardson Zoo answer the following questions. Any false information or omission of information may jeopardize your position with respect to employment. Information revealed by this questionnaire will not necessarily preclude employment, but will be considered as part of an overall evaluation of your qualifications. The responses on this questionnaire will be held in the strict confidence.

1. In the past five years, have you been convicted of a felony, or within the past two years of any Misdemeanor or are you presently charged with committing a criminal offense? (Do not include traffic violations, juvenile offenses or military convictions, except by general court-martial.) If the answer is yes, furnish details of conviction, offense, location, date, and sentence.

Yes _____ No _____

2. In the past three years, have you ever knowingly used any narcotics, amphetamines or barbiturates, other than those prescribed to you by a physician? If the answer is yes, furnish details.

Yes _____ No _____

Legal Name (Print)

Signature

Address

Social Security Number

City, State, Zip

Date of Birth

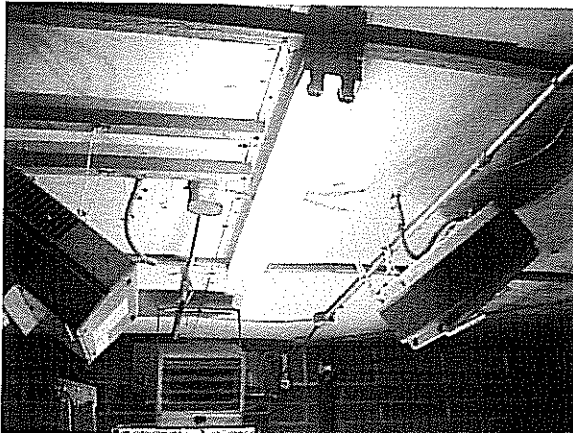
Before and After Photos of items of concern Accreditation Inspection – Lee Richardson Zoo

August 2006

Note: As not all items were physical repairs, only those items which could be photographed are included.

Major Concerns:

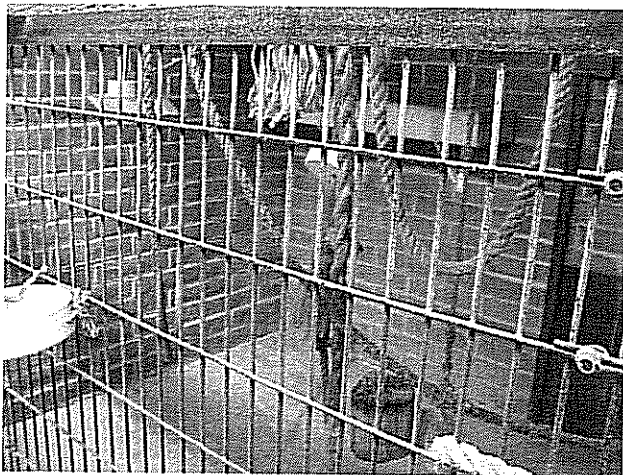
2. Lighting South American Primate Holding



South Amer. Primate barn with original 4' fixture



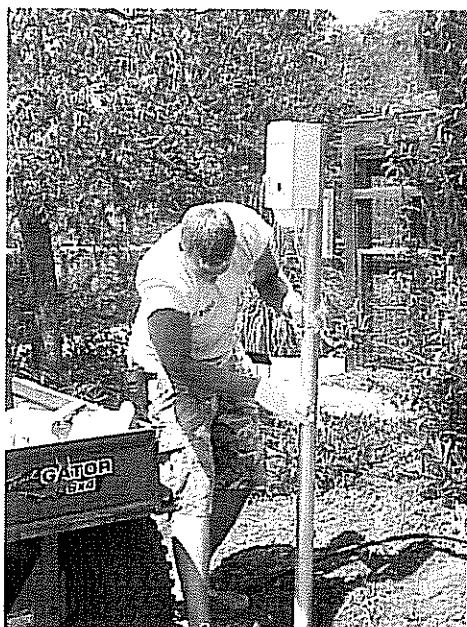
Same barn with 8' fixture and 2 pairs of flood lights



Animal quarters showing lighting of stall after installation of new fixtures.

Lee Richardson Zoo

4. Hand sanitizing station at Asian Farm Display



Staff installing sanitizer unit



Hand sanitizing station with graphics

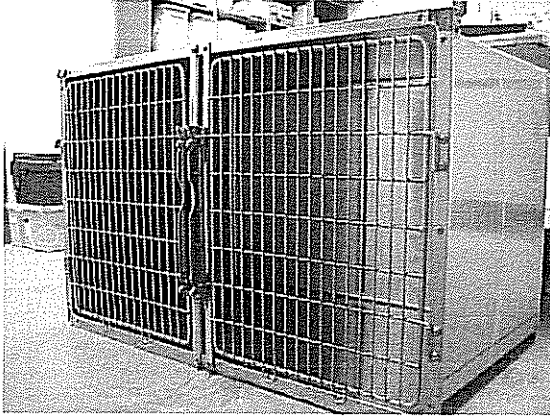


Hand sanitizing station (just left of center) in relation to Asian Farm exhibit.

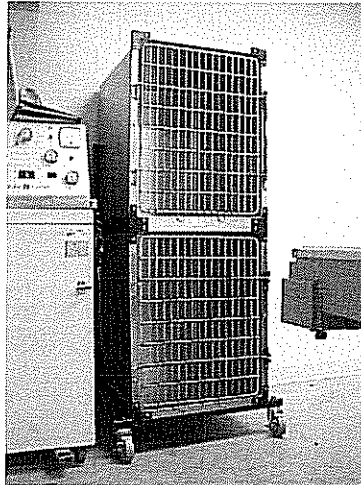
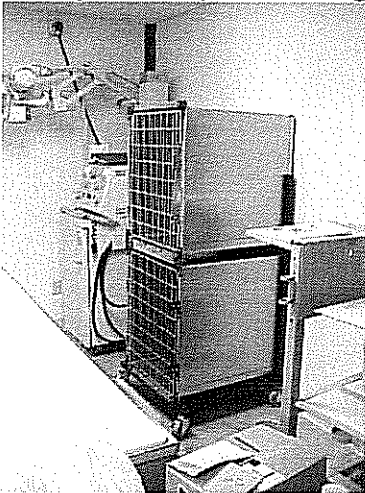
Lee Richardson Zoo

Lesser Concerns:

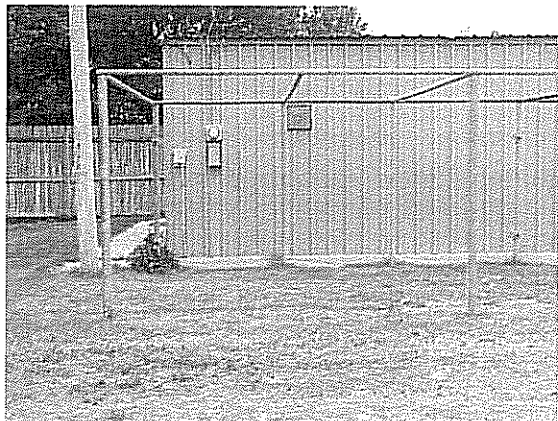
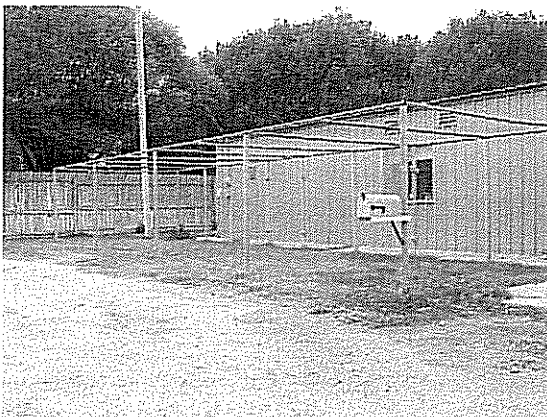
1. Hospital Holding Cages



Original hospital holding cages



Additional hospital holding cages



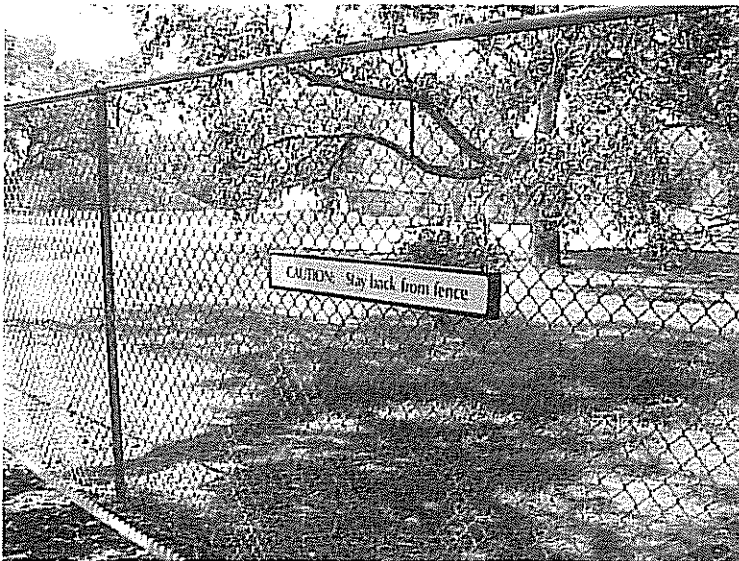
Framework for additional outdoor hospital holding cages. Chain link fence and visual barriers will be installed this fall/winter.

Lee Richardson Zoo

2. Zebra warning signs



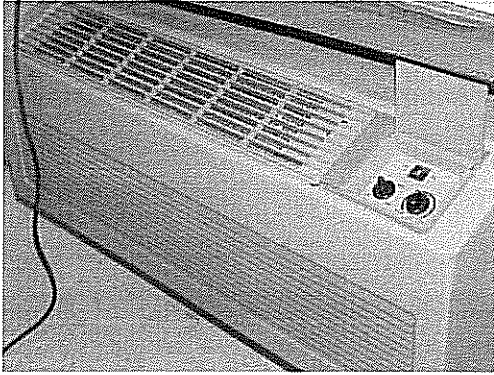
Zebra sidewalk and fence before caution signs



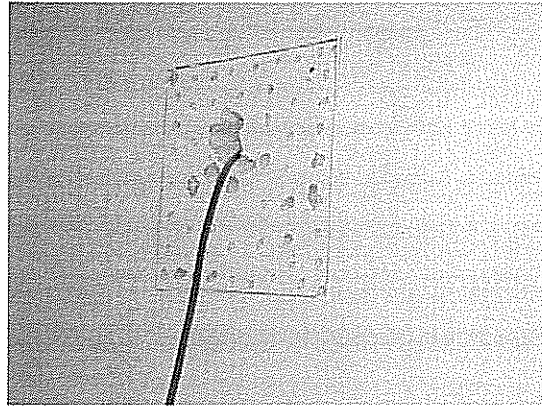
Zebra fence caution signs – 3 were mounted along length of fence.

Lee Richardson Zoo

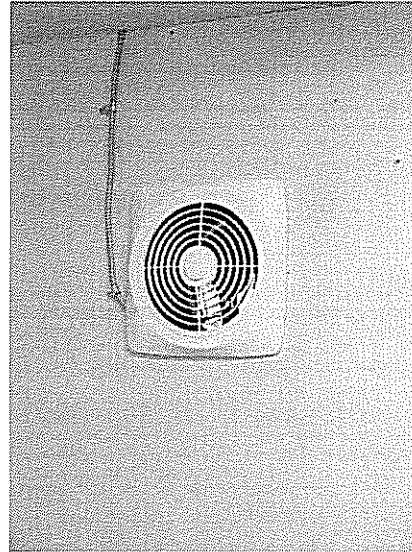
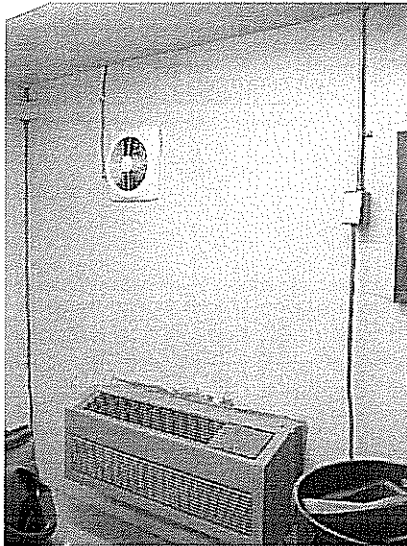
4. Live feed animal room vent.



Heater AC unit with fan/vent



wall before cutout for exhaust fan



Exhaust fan installed.



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December 27, 2006

AZA Accreditation Commission
c/o Mr. Denny Lewis
AZA
8403 Colesville Road
Suite 710
Silver Spring, MD 20910-3314

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ACCREDITED BY THE
ASSOCIATION
OF ZOOS &
AQUARIUMS

Dear Mr. Lewis;

This letter is to serve as a progress report for the members of the Accreditation Commission regarding the Lee Richardson Zoo's temporary variance regarding AZA's Standards for Elephant Management and Care.

The Commission granted a variance to our facility in April of 2006. This allowed an additional length of time to complete a barn remodeling project so that the Lee Richardson Zoo would be compliant with indoor space requirements.

Our remodeling project was completed as of November 28, 2006. Our two original elephant stalls were reconfigured within our existing barn. By incorporating space from a public viewing area and rhino holding stalls, we now have three stalls that can accommodate female elephants. The new stalls measure 573, 580, and 647 square feet respectively.

Our outdoor yard, measuring 18,000 square feet, is well above the required square footage (1,800 ft²) for our current collection.

On December 10, 2006, two non-cycling African cows were transferred from the Jacksonville Zoo to the Lee Richardson Zoo, as recommended by the Elephant SSP, to replace the two actively cycling cows that we transferred to Jacksonville in October.

The completion of this project brings the Lee Richardson Zoo into compliance with AZA's Standards For Elephant Management and Care by increasing the size and quantity of our indoor holding stalls. Submission of this report should serve as the final condition for meeting the terms



of our variance. Please do not hesitate to contact me should you require further information, or have questions.

I appreciate the support and consideration given by the Commission in granting the variance. This extension of time enabled our institution the opportunity to improve our elephant holding facility, and to contribute to the conservation of, and captive breeding efforts for, this magnificent species.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Sexson".

Kathy Sexson
Director
Lee Richardson Zoo