

**Roldan, Lizette**

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**From:** Roldan, Lizette  
**Sent:** Wednesday, August 17, 2011 9:05 AM  
**To:** 'Shelly Real'  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION REGARDING NEW LICENSE CONTROL 575580

License No.: 11-27700-02  
Docket No.: 030-38466  
Control No.: 575580

Dear Dr. Maupin:

This is in reference to your application dated July 11, 2011 requesting Nuclear Regulatory Commission License 11-27700-02. In order to continue our review, we need the following information:

1. Please submit a statement: "We have developed and maintain procedures for safe use and emergencies." Please note, the procedures should include but not limited to, how to respond if a horse has to relieve itself during the middle of the imaging and localization study.
2. In order to minimize the spread of contamination, the animals treated with licensed material should be housed in stalls separate from other animals. Please confirm the animals treated with licensed material are housed separate from the other horses treated at your facility.
3. Please provide a description of how the facilities and stall are secured to prevent unauthorized access to the animals.
4. Please describe the process of the imaging and localization studies to include, how you determine the amount of radioactive material injected in to the animal, and the criteria used to release the animal to the owner (i.e., types of surveys or calculation performed to ensure that no member of the public will be within the limits of 10 CFR 20.1301).
5. Please provide a sample letter of the instructions provided to the animal's caretaker upon release of the animal. The instructions should be specific to the type of treatment given. Appendix H of NUREG 1556 Volume 7 contains samples of instructions to caretakers of animals administered radiopharmaceutical or other unsealed materials.
6. Please provide an email address and fax number for the proposed RSO.

We will continue our review upon receipt of this information. Please reply to my attention at the Region IV Office and refer to Mail Control No. 575580. Please respond to this e-mail by September 19, 2011. You may reply via e-mail as long as the response is attached in a PDF format or by fax to 817-860-8263.

Sincerely,

***Lizette Roldán-Otero, Ph.D.***

Health Physicist  
Nuclear Regulatory Commission  
612 E. Lamar Blvd., Suite 400  
Arlington, TX 76011  
Office: 817-276-6596  
Fax: 817-860-8263

August 17, 2011

Lizette Roldan-Otero, Ph.D.  
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**RECEIVED**

**AUG 18 2011**

**DNMS**

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Dear Lizette Roldan,

1. "We have developed and maintain procedures for safe use and emergencies."
2. Treated animal are housed in the surgery barn designated for Nuclear Scintigraphy. The stalls are at the far end of the barn away from traffic. Those stalls are barricaded off and posted.
3. The facility is closed with fence completely surrounding the property. Access points are through 2 gates or the front office. One of the gates opened only by a manual button controlled by the front office. The other is an exit gate in which emergencies are expected.


The stalls designated for nuclear scintigraphy are isolated inside the surgery barn. Stalls have 3 solid walls and the front door of the stall is  $\frac{1}{4}$  wall with full bars. They are fully latched. They are then deliniated off with a chain across the aisle. No entry is allowed other than trained personnel beyond this point. The 2 entry points are closed off with chain link fence sliding doors with posted signs of being accompanied by veterinarian or technician only.

4. Patients are selected from clinical exams. Each patient receives standard dose of 175mCi based on studies performed at the University of Illinois. Patients are segregated/isolated on the day of scan pre isotope injection. The patient is imaged in a secure room utilizing only trained personnel that are routinely monitored. Post scan horses are returned to their isolated stalls. Stalls are monitored daily and no direct contact with the horse, bedding or stall until  $<1.0\text{mR/hr}$ . The stall continues to be isolated for total of 60 hours from the time of injection. Background readings are taken daily as well as specific site reading of horse and stall which are recorded with each patient log.

5. See attached for Radiation Safety instructions to caretakers

6. The RSO is William J. Maupin. Email address is [egrepair@aol.com](mailto:egrepair@aol.com). Fax number 208 466-7859.

Thank you,

  
R. Stuart Shoemaker, DVM, Diplomate ACVS

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## Radiation Safety Instructions to Caretakers of Horses Following Bone Scan

The animal has been treated with radioactive material (isotope) and still possesses a low level of radioactivity. The present level of radioactivity is below the regulatory agency level necessary for isolating the animal from humans. Because some radioactivity will be present for the next few days, it is necessary that the following safety precautions be exercised for the next 2 days:

1. The animal should be kept corralled or in a stall following hospital discharge. Minimize time in public places – avoid grooming and non-essential care.
2. The animal should not be permitted to have prolonged contact with children under the age of 12 for 2 days following hospital discharge. Close contact should be limited to less than 2 hours per day.
3. Pregnant women should avoid ANY contact with the animal or its urine and/or feces for at least 2 days after discharge.
4. Persons also should limit close contact with the animal (being within 1 meter or 3 feet of the animal) for the next 2 days to no more than 120 minutes a day. Preferably, contact with the animal should be kept to a distance of more than 1 meter or 3 feet for this period.
5. Disposable gloves should be worn whenever cleaning the horse or the stall for the next 2 days after discharge.
6. Wash hands after contact with the animal or excreta.
7. Call Idaho Equine Hospital to discuss any other radiation safety concerns.  
(208) 466-4613.