Sara A.B. Forster
MATERIALS LICENSING BRANCH

U.S.NRC
United States Nuclear Regulatory Commission
*Protecting People and the Environment*

NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

(630) 829-9892 FAX: (630) 515-1078

**TELECON & FAX TRANSMITTAL**

TO: file

COMPANY: N/A

# PAGES: 2 TEL. : N/A

FAX #: N/A

EMAIL: N/A

**CONVERSATION RECORD**

| TIME | DATE |
|---|---|
| 12:00 pm | December 30, 2011 |

| NAME OF PERSON(S) CONTACTED | TELEPHONE NO. | ORGANIZATION |
|---|---|---|
| Martin Richman, M.S. | (816) 691-5343 | North Kansas City Hospital |
| REPRESENTED PERSON or PERSONS | | ORGANIZATION |
| Martin Richman, M.S., Radiation Safety Officer | | North Kansas City Hospital |

SUBJECT

License No.: 24-18628-01 Control No.: 575841

**SUMMARY**

We have reviewed your requesting license renewal application and find that we are unable to continue this action until we have received information regarding the following:

1. DEPLETED URANIUM REMOVAL DOCUMENTATION
   The current license authorizes the possession of depleted uranium (DU) as linear accelerator shielding. However, the application does not request DU. In our December 30, 2011, conversation, we requested that the licensee send disposal, transfer, and survey documentation regarding the final disposition. Documentation should include confirmation from the manufacturer that the material was received.
   **RESPONSE: In a January 9, 2012 facsimile, the licensee indicated that neither its currently or previously owned linear accelerators ever contained DU. However, the licensee provided no independent documentation of the same. An additional phone conversation will be conducted and documented to address this issue.**

2. PET ISOTOPES INQUIRY
   From the application, it is unclear whether PET is being used at the facility. If PET is being used, additional calculations would be required to demonstrate shielding is adequate. However, the contact person indicated, via phone conversation on December 30, 2011, that no PET is being used at this facility.
   **RESPONSE: Phone response is adequate; no additional response is required.**

3. AUTHORIZED USER CLARIFICATIONS
   First, Drs. Notestine and Neperud are not listed in the renewal application, while the license currently lists them as Authorized Users (AUs). Next, the renewal application includes several spelling discrepancies with the AU spellings listed in the current license. Finally, the 10 CFR 35.300 authorizations for Drs. O'Keefe and Waltner are currently limited to oral administration of sodium iodide I-131. To expand their authorizations to all permitted under 10 CFR 35.390, as indicated in the renewal application, additional documentation would be required. In our December 30, 2011, phone conversation, we requested that the licensee clearly confirm each AU spelling and status in writing.
   **RESPONSE: The licensee confirmed current AU listings, via facsimile dated January 9, 2012. No additional response is required.**

4. AUTHORIZED USERS PENDING NRC APPROVAL
In our December 30, 2011 phone conversation, the licensee indicated that a request to add several AUs to the NRC license had been submitted and pending NRC approval. **RESPONSE: The licensee confirmed the AUs to be added in its January 9, 2012, facsimile. The referenced AUs were added, via Amendment No. 42, on January 10, 2012. No additional information regarding these AUs is required.**

5. HDR EMERGENCY PROCEDURES
The license renewal application does not adequately provide Item 9 high dose rate (HDR) remote afterloader emergency information. Additional Guidance for Item 10 (Safety Procedures and Instructions), may be found in NUREG 1556, Volume 9, Revision 2. In the December 30, 2011 phone conversation, we requested that the licensee submit required HDR emergency procedures and information in a clear and concise format, as outlined in the guidance and required under 10 CFR 35.610. **RESPONSE: In the January 9, 2012 facsimile, the licensee submitted the requested information. No additional response is required.**

6. FACILITY DIAGRAMS
Facility diagrams should clearly indicate locations of any hot lab(s) and include descriptions of any activities being conducted in the areas contiguous to the proposed radioactive materials use area(s). The description for the HDR vault should note whether adjacent areas are designated for restricted or unrestricted use. **RESPONSE: In facsimiles dated January 9, 2012, and/or January 11, 2012, the licensee submitted diagrams and tables clearly indicating the activities conducted adjacent to the areas of radioactive materials use. The response is adequate; no additional information is required.**

We have requested that you submit the referenced items:
- (1) Depleted Uranium (DU) removal documentation
- (3, 4) Correct, clear and current AU information
- (5) HDR emergency procedures
- (6) Facility clarifications and information

– via facsimile, to (630) 515-1078. Please reference Control No. 575841, as listed at the top of this memo. We expect to hear from you on or before January 9, 2012. Other than for the DU issue, all items were adequately addressed via facsimiles dated January 9, 2012, and January 11, 2012.

**For future reference, please always include the name, phone number and fax number of at least one person whom we may contact for additional information when reviewing your licensing correspondence and requests.**

Please submit the requested information within 10 days of this record. **Include reference control number 575841, Please FAX your response to my attention at (630) 515-1078.** You may also scan your response and send to me via email, as a pdf file.

Please direct any questions you have to me at **(630) 829-9892** or **sara.forster@nrc.gov.**

| NAME OF PERSON DOCUMENTING CONVERSATION | SIGNATURE | DATE |
|---|---|---|
| Sara A.B. Forster | Sara A.B. Forster | 01/13/2012 |